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GUIDE TO RESEARCH IN AIR POLLUTION:
PROJECTS ACTIVE IN CALENDAR YEAR 1966

Public Health Service
Washington, D. C.

1966

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GUIDE TO RESEARCH IN **AIR POLLUTION**

PROJECTS ACTIVE IN
CALENDAR YEAR 1966

Sixth Edition

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PREPARED BY
U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
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TABLE OF CONTENTS

Introduction	iv
How to Use the Guide to Research in Air Pollution.....	v
Section 1. Air Pollution Research in the United States - 1966.....	1
Table 1. Classification by Organization Conducting Research ..	3
Table 2. Classification by Organization Supporting Research ..	4
Table 3. Classification by Support to Organizations Conducting Research	5
Table 4. Classification by Subject Areas of Research	6
Table 5. Classification by Subject Area of Research and Organization Conducting Research	7
Table 6. Classification by Type of Support	8
Table 7. Classification by Location of Organization Conducting Research	9
Section 2. Air Pollution Research Projects - 1966	11
Section 3. Subject Index to Projects	62
Section 4. Investigator Index to Projects	73
Figure 1. Sample of Reporting Form, "Active Air Pollution Research Projects During Calendar Year 1966"	82

INTRODUCTION

This Sixth Edition of the Guide to Research in Air Pollution is a joint publication by the American Society of Mechanical Engineers and the Public Health Service, U. S. Department of Health, Education and Welfare. It covers projects active in calendar year 1966. Its preparation was aided and directed by the Research Sub-committee of the ASME Committee on Air Pollution Controls consisting of Mr. J. W. Mullan, Chairman, Mr. F. T. Bodurtha, Mr. R. A. Glenn, Mr. H. J. Scott, and Mr. C. E. Zimmer. Data were received, edited, processed, correlated, arranged, and printed by the Public Health Service Division of Air Pollution, Washington, D. C.

The first ASME survey on air pollution research was published in Mechanical Engineering, Volume 75, pages 712 through 714, September 1953. The second, third, fourth and fifth editions were published in separate reports.

Neither the American Society of Mechanical Engineers Committee on Air Pollution Controls nor the Public Health Service assumes responsibility for the accuracy of the information on the questionnaires returned to it.

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Committee on Air Pollution
Controls
American Society of
Mechanical Engineers

Vernon G. MacKenzie, Chief
Division of Air Pollution
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HOW TO USE THE
GUIDE TO RESEARCH IN AIR POLLUTION

This Guide is divided into four sections, the first summarizing the status of air pollution research as a whole, the second listing individual projects under investigation during 1966, and the third and fourth sections providing indexes to these projects by subject and by investigator. The introductory information of each section explains the arrangement of information presented therein.

SECTION 1

AIR POLLUTION RESEARCH IN THE UNITED STATES - 1966

This report is a summary of air pollution research now in progress in the United States. The information concerning these projects was obtained from questionnaires (Fig. 1) sent to universities, Federal, State, and local governmental agencies, industrial organizations, private organizations, and individuals believed to be actively engaged in such activities. Additional sources of information were provided by some of the respondents to the questionnaires.

Since the information in this report was obtained from questionnaires returned by a large number of investigators, neither the American Society of Mechanical Engineers nor the Public Health Service, U. S. Department of Health, Education, and Welfare can assume responsibility for its validity. Those associated with the compilation of this material believe that the information is representative of the total effort currently being expended in air pollution research.

A brief summary of the air pollution research activities in the United States is given below. Detailed information relative to the individual projects is provided in Section 2 of this report. Indexes of project titles and principal investigators are presented in Sections 3 and 4, respectively.

Information was received concerning 501 projects (Table 1). For 440 of them the amount of money funded for 1966 totalled \$25,350,000. If one were to assume that this ratio of funds to number of projects applies to all projects reported, a reasonable estimate of the total expenditures for all 501 projects would be approximately \$29 million. Since there are undoubtedly additional research activities for which no information was obtained, an estimate of some \$31 million a year spent on air pollution research is probably realistic.

Table 1 shows that much of the research (79% of the projects reported) is conducted either by universities or the Federal Government, representing an expenditure of nearly \$19 million or 82% of the total.

Table 2 shows the type of organizations providing the financial support of air pollution research activities. The table indicates that the Federal Government provides a substantial

part of the total financial support. It should be mentioned, however, that the policy of many industrial organizations does not permit the release of information concerning funding of projects.

A summary of the research activities in various subject areas is presented in Table 4. The subject area designations are somewhat arbitrary and in some cases overlap. Assignment of individual projects to one of these categories involves a degree of subjectivity. The data in this table indicate that considerable research is directed toward control devices or methods. The largest amount of money being spent on research in a single subject area is the \$5.5 million for Control Devices and Methods.

Studies relative to a better understanding of the chemistry and physics of the atmosphere and source and source emission studies together represented an expenditure of more than 5 million. Research projects directed toward studying the effects of air pollution upon the health of man and animals, i.e., epidemiologic, physiologic-pathologic (man or animal), and toxicologic represented an expenditure of about \$4.3 million or roughly 16 percent of the total.

Table 7 is a summary of the air pollution research activities listed according to the state in which the conducting organization is located. As one would expect, California, New York, Ohio and Pennsylvania account for a sizable portion of the total, both in number of projects (288) and amount funded (\$12,707,000).

TABLE 1
AIR POLLUTION RESEARCH PROJECTS - 1966
CLASSIFICATION BY ORGANIZATION CONDUCTING RESEARCH

Organization Conducting Air Pollution Research	All Projects Reported		Projects Reporting 1966 Funding		
	Number of Projects	Percent of Total	Number of Projects	Funding (Dollars)	Percent of Total Funding
Universities	242	48	210	8,462	33
Federal Agencies	151	30	148	10,414	41
State Agencies	5	1	5	93	*
Local Agencies	13	3	6	653	3
Industrial Organizations	57	11	44	4,570	18
Private (Non-Industrial)	33	7	27	1,158	5
TOTALS	501	100	440	25,350	100

*Less than 1%

TABLE 2
AIR POLLUTION RESEARCH PROJECTS - 1966
CLASSIFICATION BY ORGANIZATION SUPPORTING RESEARCH

Organization Supporting Air Pollution Research	All Projects Reported		Projects Reporting 1966 Funding		
	Number of Projects	Percent of Total	Number of Projects	Funding (thou- sands of dollars)	Percent of Total Funding
Universities	29	6	22	499	2
Federal Agencies	369	74	349	20,283	80
State Agencies	5	1	3	55	*
Local Agencies	11	2	4	72	1
Industrial Organizations	39	8	28	1,479	6
Private (Non- Industrial)	27	5	18	2,264	9
Federal & University	14	3	12	535	2
Federal & State	1	*	1	5	*
Federal, Indus- trial & Private	1	*	1	100	*
Not Classified	5	1	2	58	*
	501	100	440	25,350	100

* Less than 1% of Total

TABLE 3

AIR POLLUTION RESEARCH PROJECTS - 1966

CLASSIFICATION BY SUPPORT TO ORGANIZATIONS CONDUCTING RESEARCH

Number of Projects Supported by	Organization Conducting Research							Totals
	Univer- sities	Federal Agen- cies	State Agen- cies	Local Agen- cies	Indus- trial Organi- zations	Private (Non- Indus- trial		
Universities	29						29	
Federal Agencies	180	149	5	5	16	15	370	
State Agencies	5						5	
Local Agencies	2			8		1	11	
Industrial Organizations					38	1	39	
Private (Non-Industrial)	6	2			3	13	24	
Federal & Universities	14						14	
Federal & State	1						1	
Federal, Industrial & Private						2	2	
Not Classified	5					1	6	
TOTALS	242	151	5	13	57	33	501	

TABLE 4
AIR POLLUTION RESEARCH PROJECTS - 1966
CLASSIFICATION BY SUBJECT AREAS

Subject Area	All Projects Reported		Projects Reporting 1966 Funding		
	Number of Projects	Percent of Total	Number of Projects	Funding (Dollars)	Percent of Total Funding
Agriculture	38	8	34	909	4
Air Pollution Surveys and Survey Techniques	20	4	18	349	1
Atmospheric Monitoring and Network Operations	20	4	17	1123	4
Biochemical	23	5	18	635	3
Chemistry and Physics of the Atmosphere	51	10	46	2181	9
Control Devices or Methods	56	11	49	5494	22
Demographic	2		2	85	*
Epidemiologic	5	1	4	53	*
Gaseous Pollutant Sampling and Analysis	29	6	24	943	4
Instrumentation Development	14	3	12	282	1
Meteorology	20	4	18	1484	6
Miscellaneous Effects (Corrosion, odors, particulate retention, etc.)	11	2	11	273	1
Miscellaneous Studies (Economics, statistics, legal, etc.)	33	7	31	1207	5
Particulate Sampling and Analysis	6	1	5	66	*
Physiologic-pathologic (Animal)	16	3	12	799	3
Physiologic-pathologic (Man)	58	11	53	3058	12
Radioactivity	19	4	15	2774	11
Source and Source Emission Studies	74	15	67	3283	13
Toxicologic	6	1	4	352	1
TOTALS	501	100	440	25,350	100

*Less than 1%.

TABLE 5
AIR POLLUTION RESEARCH PROJECTS - 1966
CLASSIFICATION BY SUBJECT AREA AND ORGANIZATION CONDUCTING RESEARCH

Subject Area	Number of Projects Reporting						
	Uni- versi- ties	Fed- eral Agen- cies	State Agen- cies	Local Agen- cies	Indus- trial Organi- zations	Private (other than indus- trial)	Grand Total
Agriculture	28	5	1		1	3	38
Air Pollution Surveys and Survey Techniques	13	1		1	2	3	20
Atmospheric Monitoring and Network Operations	3	6		3	5	3	20
Biochemical	15	4	1	1	1	1	23
Chemistry and Physics of the Atmosphere	34	11			1	5	51
Control Devices or Methods	24	11	1	1	14	5	56
Demographic		2					2
Epidemiologic	2	3					5
Gaseous Pollutant Sampling and Analysis	12	8	1	2	3	3	29
Instrumentation Development	4	8		1	1		14
Meteorology	8	8			1	3	20
Misc. Effects (Corrosion, odors, particulate retention, etc.)	6	5					11
Misc. Studies (Economics, statistics, legal, etc.)	9	19		1	3	1	33
Particulate Sampling and Analysis	3	2			1		6
Physiologic-pathologic (animal)	11	2	1	1		1	16
Physiologic-pathologic (man)	43	11		1	1	2	58
Radioactivity	9	5			5		19
Source and Source Emission Studies	15	37		1	18	3	74
Toxicologic	3	3					6
Totals	242	151	5	13	57	33	501

TABLE 6
AIR POLLUTION RESEARCH PROJECTS - 1966
CLASSIFICATION BY TYPE OF SUPPORT

Number of Projects Supported by	Organization Conducting Research						
	Univer- sities	Federal Agen- cies	State Agen- cies	Local Agen- cies	Indus- trial Organi- zations	Private (Non- Indus- trial	Sub- Total
GRANT: Public Health Service Atomic Energy Comm. Other	138 9 3	8 13	5	4	5 1	14	174 23 3
CONTRACT: Government (Federal, State, Local) Private Both	28 8	8 1		1	10 5	2 5 2	49 19 2
INTERNAL:	16	112		7	34	5	174
OTHER:*	40	9		1	2	5	57
TOTAL	242	151	5	13	57	33	501

* Combinations of the above as well as other types of support

TABLE 7 (cont'd). CLASSIFICATION BY LOCATION OF ORGANIZATION CONDUCTING RESEARCH - 1966

Location	Number of Projects						Projects Reporting Funding				
	Uni- versi- ties	Fed- eral Agen- cies	State Agen- cies	Local Agen- cies	Indus- trial Organi- zations	Private (Non- indus- trial)	Totals	Per- cent of Total	Number of Pro- jects	Funding (thou- sands of dollars)	Percent of Total Funding
State	5	2			3	1	9	2	8	476	2
New Jersey	34				6	2	44	9	31	2,507	10
North Carolina	5	104					5	1	5	128	1
Ohio	6	6		1	7	2	120	24	117	5,362	21
Oklahoma	1				1		8	2	6	491	2
Oregon	8						8	2	7	167	1
Pennsylvania	22	12	1		5	8	48	10	34	1,312	5
Rhode Island	1						1		1	24	
South Carolina	1						1		1	14	
Tennessee	3	5	1				8		7	265	1
Texas	7				4	1	13	3	12	347	1
Utah	6				1		7	1	3	157	1
Virginia	2						5	1	7	172	1
Washington	9	2			6	3	17	3	17	2,219	9
West Virginia	2						2		2	42	
Wisconsin	4						4	1	4	79	
Foreign	3					1	4	1	4	66	
Totals	242	151	5	13	57	33	501	100	440	25,350	100

SECTION 2

AIR POLLUTION RESEARCH PROJECTS - 1966

The projects are listed alphabetically by states and within each state they are alphabetized by the name of organization conducting the research. Projects are numbered consecutively and these numbers are included in the Subject Index (Section 3) and the Investigators Index (Section 4).

Each project is listed in the following format; a blank entry indicates that the information was not reported:

Line 1:

Project Number - This number, assigned merely as a reference, appears both preceding and following the name of the organization conducting research.

Organization Conducting Research - Included is the name of the organization and location, both city and state.

Line 2:

Project Title - A brief descriptive title of the research.

Line 3:

Investigator - The name and the address of principal investigator.

Line 4:

Sponsor(s) - The organization(s) providing financial support for the project.

Line 5:

Project Data

Starting Date - The year the project was originated.

Type of Support - Whether support is by Grant, Contract, Internal, or more than one type.

Amount Support - Indicates the amount of money funded for 1966.

001	ALABAMA TITLE INVESTIGATOR SPONSOR PROJECT DATA	CAMPAIGN AGAINST TUBERCULOSIS ALABAMA AIR POLLUTION & HEALTH STUDY & BIOMETRY K.W. GRIMLEY USPHS STARTED 1961	CAMPAIGN AGAINST TB P.O. BOX 3226	BIRMINGHAM ALA BIRMINGHAM ALA COST \$ 50,000	001
002	ALABAMA TITLE INVESTIGATOR SPONSOR PROJECT DATA	SOUTHERN RESEARCH INSTITUTE IDENTIFICATION OF ORGANIC COMPOUNDS IN THE ATMOSPHERE W.J. BARRETT USPHS STARTED 1965	2000 9TH AVE., SOUTH	BIRMINGHAM ALA BIRMINGHAM ALA COST \$ 21,000	002
003	ALABAMA TITLE INVESTIGATOR SPONSOR PROJECT DATA	SOUTHERN RESEARCH INSTITUTE A STUDY OF THE CHEMICAL NATURE OF ATMOSPHERIC POLLUTANTS IN MILITARY ENVIR. W.J. BARRETT SOUTHERN RES. INST. STARTED 1966	2000 NINTH AVE.	BIRMINGHAM ALA BIRMINGHAM ALA COST \$ 36,000	003
004	ALASKA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ALASKA INVESTIGATION OF ICE FOG PROBLEMS T. ONYAKE USPHS STARTED 1965	UNIV. OF ALASKA	COLLEGE ALASKA COLLEGE ALASKA COST \$ 49,000	004
005	ARKANSAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ARKANSAS FALLOUT IN RAIN P.K. KURODA USAC STARTED 1958	UNIV. OF ARKANSAS	FAVETTEVILLE ARK FAVETTEVILLE ARK COST \$ 50,000	005
006	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	AEROMETRIC RESEARCH FOUNDATION ANALYSIS OF MARINE LAYER, A MESO-METEOROLOGICAL STUDY S.D. FRANK USPHS STARTED 1960	AEROMETRIC RES. FD., SANTA BARBARA AIRPORT	GOLETA CALIF GOLETA CALIF COST \$ 50,000	006
007	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	AEROMETRIC RESEARCH FOUNDATION POTENTIAL VISIBILITY IN AIR QUALITY MEASUREMENT R.E. KERR USPHS STARTED 1963	AEROM. RES. FOUND.	GOLETA CALIF GOLETA CALIF COST \$ 14,000	007
008	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	ARCO CHEMICAL COMPANY, DIV. OF ATLANTIC-RICHFIELD CO. TECHNIQUES FOR ANALYZING, EVALUATING, & CONTROLLING MOTOR VEHICLE EXHAUST W.F. DEETER ARCO CHEMICAL CO. ARCO CHEMICAL CO., DIV. OF ATLANTIC-RICHFIELD CO. STARTED 1962	1900 CRESCENT AVE.	ANAHEIM CALIF ANAHEIM CALIF COST \$150,000	008
009	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	ATMOSPHERIC RESEARCH GROUP FORMATION AND DECAY OF PHOTOCHEMICAL AEROSOLS A. GOETZ USPHS STARTED 1958	2420 NORTH LAKE AVE	ALTADENA CALIF ALTADENA CALIF COST \$ 55,000	009
010	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	ATMOSPHERIC RESEARCH GROUP FORMATION AND DECAY OF ATMOSPHERIC AEROSOLS A. GOETZ USPHS STARTED 1966	2420 NORTH LAKE AVE.	ALTADENA CALIF ALTADENA CALIF COST \$ 27,000	010

011	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	ATMOSPHERIC RESEARCH GROUP ATMOSPHERIC DIFFUSION IN THE INERTIAL SUBHANGE P.B. MACCREADY, JR. USPHS STARTED 1964	ATMOSPHERIC RES. GRP 2420 NORTH LAKE AVE.	ALTADENA ALTADENA COST \$ 65,000	CALIF 011 CALIF
012	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	ATMOSPHERIC RESEARCH GROUP RADAR MEASUREMENTS OF THE MIXING LAYER OVER CITIES T.R. MEE USPHS STARTED 1963	ATMOSPHERIC RES. GRP 2420 NORTH LAKE AVE.	ALTADENA ALTADENA COST \$ 62,000	CALIF 012 CALIF
013	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	ATMOSPHERIC RESEARCH GROUP INVESTIGATION OF AEROSOLS GENERATED OVER OCEANIC AREAS T.R. MEE USPHS STARTED 1966	ATMOSPHERIC RES. GRP SUPPORT: GRANT(10TH), CONTRACT(GOVT)	ALTADENA ALTADENA COST \$ 25,000	CALIF 013 CALIF
014	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	ATOMICS INTERNATIONAL CHARACTERIZATION OF ENERGY + AEROSOLS GENERATED FROM SODIUM POOL FIRES M. SILBERBERG USAEC STARTED 1964	ATOMICS INTERNATL. P.O. BOX 309	CANOSA PARK CANOSA PARK COST \$320,000	CALIF 014 CALIF
015	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	ATOMICS INTERNATIONAL CHARACTERIZATION OF ENERGY + AEROSOL TRANSPORT FROM ORGANIC COOLANT RELEASES M. SILBERBERG USAEC STARTED 1966	ATOMICS INTERNATL. P.O. BOX 309	CANOSA PARK CANOSA PARK COST \$ 40,000	CALIF 015 CALIF
016	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	BECKMAN INSTRUMENTS, INC. A COMPREHENSIVE R + D PROGRAM ON ANALYTICAL AIR POLL. INSTRUMENTATION R.L. CHAPMAN BECKMAN INSTRUMENTS STARTED	2500 HARBOR BLVD. SUPPORT: INTERNAL	FULLERTON FULLERTON	CALIF 016 CALIF
017	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	CALIFORNIA ARBORETUM FOUNDATION INC. EFFECT OF AIR POLLUTANTS ON TISSUE GROWTH OF PLANTS W.S. STEWART USPHS STARTED 1958	CALIF. ARBOR. FOUND SUPPORT: GRANT(1PHS)	ARCADIA ARCADIA COST \$ 8,000	CALIF 017 CALIF
018	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	CALIFORNIA INSTITUTE OF TECHNOLOGY CROKINETICS STUDIES IN REACTIONS OF NITRIC OXIDE W. L. CORCORAN USPHS STARTED 1963	CALIF INST OF TECH 1201 E. CALIF BLVD SUPPORT: GRANT(1PHS)	PASADENA PASADENA COST \$ 25,000	CALIF 018 CALIF
019	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	CALIFORNIA INSTITUTE OF TECHNOLOGY STUDIES OF THE BEHAVIOR OF THE ATMOSPHERIC AERSOLS S.K. FRIEDLANDER USPHS AND USAEC STARTED	CALIF INST OF TECH SUPPORT: GRANT(COM)	PASADENA PASADENA COST \$ 50,000	CALIF 019 CALIF
020	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	CALIFORNIA INSTITUTE OF TECHNOLOGY OXIDANT MEASUREMENTS IN PASADENA A.J. WAAGEN-SMITH CALIF INST OF TECH STARTED	CALIF INST OF TECH 1201 E. CALIF BLVD SUPPORT: INTERNAL	PASADENA PASADENA	CALIF 020 CALIF

021	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	CALIFORNIA INSTITUTE OF TECHNOLOGY MEASUREMENT OF COMMON LEAD IN THE EARTH'S HYDROSPHERE C.C. PATTERSON USPHS STARTED 1963	PASADENA PASADENA COST	CALIF CALIF \$ 9,000	021
022	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	CALIFORNIA INSTITUTE OF TECHNOLOGY PARTIAL OXIDATION PRODUCTS FORMED DURING COMBUSTION B.M. SAGE USPHS STARTED 1960	PASADENA PASADENA COST	CALIF CALIF \$ 20,000	022
023	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	CALIFORNIA INSTITUTE OF TECHNOLOGY FORMATION OF THE OXIDES OF NITROGEN DURING COMBUSTION B.M. SAGE USPHS STARTED 1960	PASADENA PASADENA COST	CALIF CALIF \$ 23,000	023
024	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	CALIFORNIA STATE DEPARTMENT OF PUBLIC HEALTH ANIMAL TEST FOR BIOLOGICALLY ACTIVE AIR CONTAMINANTS H.L. HELWIG USPHS STARTED 1963	BERKELEY BERKELEY COST	CALIF CALIF \$ 20,000	024
025	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	KAISER STEEL CORPORATION TESTING FEASIBILITY OF BAGHOUSE ON WINDBOY END OF SINTER PLANT J.H. SMITH KAISER STEEL CORP. STARTED 1963	FONTANA FONTANA COST	CALIF CALIF \$110,000	025
026	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOS ANGELES COLLEGE FOUNDATION PHOTOLYTIC OXIDATION IN THE PRESENCE OF NITROGEN DIOXIDE S. JAFFE USPHS STARTED 1966	LOS ANGELES LOS ANGELES COST	CALIF CALIF \$ 15,000	026
027	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT DEVELOPMENT & IMPROVEMENT OF NEW & EXISTING INSTRUMENTS FOR AIR MONITORING R.J. BRYAN L.A. COUNTY - APCD LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT STARTED 1963	LOS ANGELES LOS ANGELES COST	CALIF CALIF \$ 15,000	027
028	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT A COMPUTER PROGRAM TO SIMULATE EMISSION & TRANSPORT OF AIR CONTAMINANTS R.J. BRYAN L.A. COUNTY - APCD LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT STARTED 1966	LOS ANGELES LOS ANGELES COST	CALIF CALIF \$ 15,000	028
029	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT ATMOSPHERIC SULFUR BALANCE R.J. BRYAN L.A. COUNTY - APCD LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT STARTED 1964	LOS ANGELES LOS ANGELES COST	CALIF CALIF \$ 15,000	029
030	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT BIOLOGICAL EFFECTS OF AUTOMOTIVE AIR POLLUTANTS ON ANIMALS R.J. BRYAN L.A. COUNTY - APCD USPHS STARTED 1962	LOS ANGELES LOS ANGELES COST	CALIF CALIF \$ 58,000	030

031	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT SAMPLING AND ANALYTICAL PROCEDURES FOR SOURCE TESTING A.P.FUDURICH L.A.COUNTY - APCD 434 SO. SAN PEDRO ST. LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT STARTED 1966 SUPPORT: INTERNAL	LOS ANGELES LOS ANGELES	CALIF CALIF	031
032	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT AIR MONITORING WITH A MOBILE LABORATORY W.J.HAMMING L.A.COUNTY - APCD 434 SO. SAN PEDRO ST. USPHS STARTED 1966 SUPPORT: INTERNAL, OTHER	LOS ANGELES LOS ANGELES	CALIF CALIF	032
033	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT ANALYSIS OF ATMOSPHERIC HYDROCARBON CONCENTRATIONS W.J.HAMMING L.A.COUNTY - APCD 434 SO. SAN PEDRO ST. LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT STARTED 1964 SUPPORT: INTERNAL	LOS ANGELES LOS ANGELES	CALIF CALIF	033
034	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT RELATIVE PHOTOCHEMICAL REACTIVITY OF ORGANIC SOLVENTS W.J.HAMMING L.A.COUNTY - APCD 434 SO. SAN PEDRO ST. LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT STARTED 1966 SUPPORT: INTERNAL	LOS ANGELES LOS ANGELES	CALIF CALIF	034
035	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT DETERMINATION OF ATMOSPHERIC CONCENTRATION LEVELS OF CERTAIN METALS R.D.MACPHEE L.A.COUNTY - APCD 434 SO. SAN PEDRO ST. LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT STARTED 1965 SUPPORT: INTERNAL	LOS ANGELES LOS ANGELES	CALIF CALIF	035
036	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOS ANGELES STATE AND COUNTY ARBORETUM EFFECT OF AIR POLLUTANTS ON TISSUE GROWTH OF PLANTS W.S.STEWART LA ST - CT, ARBOR, 301 NORTH BALDWIN AVE USPHS STARTED 1959 SUPPORT: GRANT (PHS)	ARCADIA ARCADIA	CALIF CALIF	036
037	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	RANCHO LOS AMIGOS HOSPITAL, INC. POLLUTANTS - HUMAN FUNCTION ENVIRONMENT CONTROLLED S.N.ROKAW RAN. LOS AMIGOS HOS. USPHS STARTED 1962 SUPPORT: GRANT (PHS)	DOWNEY DOWNEY	CALIF CALIF	037
038	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	STANFORD RESEARCH INSTITUTE VEGETATION DAMAGE FROM INDUSTRIAL PLANT EFFLUENTS H.W.BENEDICT STANFORD RES INST 820 MISSION STREET STANFORD RESEARCH INSTITUTE STARTED SUPPORT: CONTRACT (PRIV)	SO. PASADENA SO. PASADENA	CALIF CALIF	038
039	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	STANFORD RESEARCH INSTITUTE EFFECTS OF INDUSTRIAL POLLUTANTS ON AGRICULTURAL CROPS H.W.BENEDICT STANFORD RES INST. 820 MISSION STREET STANFORD RESEARCH INSTITUTE STARTED 1952 SUPPORT: CONTRACT (PRIV)	SO. PASADENA SO. PASADENA	CALIF CALIF	039
040	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	STANFORD RESEARCH INSTITUTE STRUCTURE AND REACTIVITY OF RADICALS AND MOLECULES S.W.BENSON STANFORD RES. INST. USPHS STARTED 1964 SUPPORT: GRANT (PHS)	MENLO PARK MENLO PARK	CALIF CALIF	040

041	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	STANFORD RESEARCH INSTITUTE BIOLOGIC SEQUELAE IN RATS EXPOSED TO NITROGEN DIOXIDE G. FREEMAN USPHS STARTED 1961	STANFORD RES INST RAVENSWOOD AVENUE	MENLO PARK CALIF 041 MENLO PARK CALIF COST \$ 68,000
042	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	STANFORD UNIVERSITY EFFECTS OF TOXIC AGENTS • ENVIRONMENTAL FACTORS ON HUMAN BEHAVIOR R.R. BEARD US ARMY MEDICAL R+D STARTED 1962	STANFORD UNIV. SUPPORT: CONTRACT(GOVT)	STANFORD CALIF 042 STANFORD CALIF COST \$ 60,000
043	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	STANFORD UNIVERSITY STUDIES OF NUCLEAR WEAPONS DEBRIS AS AEROSOLS • THEIR WASHOUT CHARACTERISTICS P. KRUGER USPHS, USAEC STARTED 1964	STANFORD UNIV. SUPPORT: GRANT(COM)	STANFORD CALIF 043 STANFORD CALIF COST \$ 29,000
044	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES FOREST SERVICE SUSCEPTIBILITY OF WESTERN CONIFERS TO AIR POLLUTION R.V. BEGA USPHS STARTED 1966	U.S. FOREST SERVICE PAC. SW FOR. • RAN STA SUPPORT: CONTRACT(GOVT)	BERKELEY CALIF 044 BERKELEY CALIF COST \$ 90,000
045	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES NAVAL RADIOLOGICAL DEFENSE LABORATORY FORMATION AND DISTRIBUTION OF NUCLEAR DEBRIS G.R. CROCKER USAEC STARTED 1960	US NAVAL DEF. LABS. SUPPORT: GRANT(AEC)	SAN FRANCISCO CALIF 045 SAN FRANCISCO CALIF COST \$125,000
046	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES NAVAL RADIOLOGICAL DEFENSE LABORATORY PHYSICAL CHEMISTRY OF FALLOUT J.Y. GUAN USDASA STARTED 1962	US NAVAL DEF. LABS. SUPPORT: GRANT(OTH), CONTRACT(GOVT)	SAN FRANCISCO CALIF 046 SAN FRANCISCO CALIF COST \$ 90,000
047	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA CATALYTIC REDUCTION OF OXIDES OF NITROGEN R.J. AYEN UNIV OF CALIF USPHS STARTED 1964	UNIV OF CALIF SUPPORT: GRANT(PHS)	BERKELEY CALIF 047 BERKELEY CALIF COST \$ 19,000
048	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA A MUTAGENIC ACTION OF AIR POLLUTANTS W.L. BELSER UNIV OF CALIF UNIVERSITY OF CALIFORNIA STARTED 1963	UNIV OF CALIF SUPPORT: GRANT(OTH), INTERNAL	RIVERSIDE CALIF 048 RIVERSIDE CALIF COST \$ 8,000
049	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA EFFECTS OF FLUORINE (AS FLUORIDE) ON PLANT GROWTH AND YIELDS R.W. BREWER UNIV OF CALIF STATE OF CALIFORNIA STARTED 1962	UNIV OF CALIF SUPPORT: GRANT(OTH)	RIVERSIDE CALIF 049 RIVERSIDE CALIF COST \$ 10,000
050	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA EFFECTS OF DUSTS ON VEGETATION E.F. DARLEY UNIV OF CALIF USPHS AND UNIVERSITY OF CALIFORNIA STARTED 1964	UNIV OF CALIF SUPPORT: GRANT(PHS), INTERNAL	RIVERSIDE CALIF 050 RIVERSIDE CALIF COST \$ 43,000

051	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA PHOTOCHEMICAL EFFECTS OF OXIDANTS ON PLANTS W.M. DUGGER JR UNIV OF CALIF USPHS AND UNIVERSITY OF CALIFORNIA STARTED 1961 SUPPORT: GRANT(PHS), INTERNAL	RIVERSIDE CALIF 051 RIVERSIDE CALIF COST \$ 49,000
052	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA A CYTOLOGIC STUDY OF AIR POLLUTION EFFECTS IN MAN S.M. FARBER UNIV OF CALIF USPHS STARTED 1963 SUPPORT: GRANT(PHS)	SAN FRANCISCO CALIF 052 SAN FRANCISCO CALIF COST \$ 36,000
053	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA EFFECTS OF AIR POLLUTION ON SENSITIVE PLANTS - CELL STUDIES R.R. GLATER UCLA DEPT OF EGN STATE OF CALIFORNIA-DEPARTMENT OF PUBLIC HEALTH STARTED 1964 SUPPORT: OTHER	LOS ANGELES CALIF 053 LOS ANGELES CALIF
054	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA PHOTOCHEMISTRY OF SUBSTANCES PRESENT IN URBAN AIR W.S. JOHNSTON UNIV OF CALIF USPHS STARTED 1960 SUPPORT: GRANT(PHS)	BERKELEY CALIF 054 BERKELEY CALIF COST \$ 39,000
055	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA ENGINE COMBUSTION AND CARBURETION STUDIES AS RELATED TO SMOG CONTROL R.D. KOPA UNIV OF CALIF STATE OF CALIFORNIA STARTED 1963 SUPPORT: OTHER	LOS ANGELES CALIF 055 LOS ANGELES CALIF COST \$ 20,000
056	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA BIOLOGICAL EFFECTS OF GASEOUS IONS A.P. KRUEGER UNIV OF CALIF USPHS STARTED 1956 SUPPORT: GRANT(PHS), CONTRACT(GOVT)	BERKELEY CALIF 056 BERKELEY CALIF COST \$ 88,000
057	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA A-604 COMPARATIVE BIOLOGICAL EXPOSURES AND RESPONSES TO ATMOSPHERES J.T. MIDDLETON UNIV OF CALIF USPHS AND UNIVERSITY OF CALIFORNIA STARTED 1962 SUPPORT: CONTRACT(GOVT), INTERNAL	RIVERSIDE CALIF 057 RIVERSIDE CALIF COST \$140,000
058	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA SYNTHESIS & TURNOVER OF FATTY ACIDS & GLYCEROLIPIDS IN PHOTOSYNTHETIC ORG. J.B. MUDD UNIV OF CALIF USNSF AND UNIVERSITY OF CALIFORNIA STARTED 1960 SUPPORT: GRANT(NSF), INTERNAL	RIVERSIDE CALIF 058 RIVERSIDE CALIF COST \$ 13,000
059	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA BIOCHEMICAL EFFECTS OF AIR POLLUTANT OXIDANTS J.B. MUDD UNIV OF CALIF USPHS AND UNIVERSITY OF CALIFORNIA STARTED 1962 SUPPORT: GRANT(PHS), INTERNAL	RIVERSIDE CALIF 059 RIVERSIDE CALIF COST \$ 36,000
060	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA ANATOMIC LOCALIZATION & PHYSIOLOGICAL EFF. OF INHALED AEROSOLS OF DIP. SIZE J.A. NADEL UNIV OF CALIF STARTED 1963 SUPPORT:	SAN FRANCISCO CALIF 060 SAN FRANCISCO CALIF

061	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA EFFECT OF AIR POLLUTANTS ON CELL GROWTH L. ORDIN USPHS AND UNIVERSITY OF CALIF STARTED 1962	RIVERSIDE RIVERSIDE COST	CALIF 061 CALIF \$ 40,000	SUPPORT: GRANT(PHS), INTERNAL
062	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA MECHANISMS OF OZONE INJURY TO CONIFERS J.R. PARMETER, JR UNIV OF CALIF USPHS STARTED 1965	BERKELEY BERKELEY COST	CALIF 062 CALIF \$ 26,000	SUPPORT: GRANT(PHS)
063	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA MECHANISMS OF PHOTOCHEMICAL REACTIONS IN URBAN AIR J.M. PITTS, JR. UNIV OF CALIF USPHS STARTED 1959	RIVERSIDE RIVERSIDE COST	CALIF 063 CALIF \$ 95,000	SUPPORT: GRANT(PHS)
064	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA PHOTOCHEMISTRY OF POLLUTED ATMOSPHERES E.A. SCHUCK UNIV OF CALIF USPHS AND UNIVERSITY OF CALIFORNIA STARTED 1963	RIVERSIDE RIVERSIDE COST	CALIF 064 CALIF \$ 13,000	SUPPORT: GRANT(PHS), INTERNAL
065	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA RELATIONSHIP BETWEEN LEAD FROM MOTOR VEHICLE EXHAUST AND CONSUMER CROPS E.A. SCHUCK UNIV OF CALIF INTERNATIONAL LEAD ZINC ORGANIZATION STARTED 1966	RIVERSIDE RIVERSIDE COST	CALIF 065 CALIF \$ 38,000	SUPPORT: CONTRACT(PRIV), INTERNAL
066	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA COMBUSTION GAS COMPOSITION E.S. STARKMAN UNIV OF CALIF USPHS STARTED 1965	BERKELEY BERKELEY COST	CALIF 066 CALIF \$ 35,000	SUPPORT: GRANT(PHS)
067	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA A STUDY OF HYDROCARBONS IN THE ATMOSPHERE + EFF. OF POLLUTED ATMOSP. ON VEG. E.R. STEPHENS UNIV OF CALIF AMERICAN PETROLEUM INSTITUTE STARTED 1958	RIVERSIDE RIVERSIDE COST	CALIF 067 CALIF \$ 15,000	SUPPORT: OTHER
068	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA EFFECTS OF AIR POLLUTANTS ON STORAGE, STABILITY AND PROCESSING LEMON FRUIT C.C. TAYLOR UNIV OF CALIF UNIVERSITY OF CALIFORNIA-LEMON ADMINISTRATIVE COMMITTEE STARTED 1963	RIVERSIDE RIVERSIDE COST	CALIF 068 CALIF \$ 20,000	SUPPORT: INTERNAL, OTHER
069	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA AROMATIC BY-PRODUCTS OF COMBUSTION B.D. TEBBENS UNIV OF CALIF USPHS STARTED 1954	BERKELEY BERKELEY COST	CALIF 069 CALIF \$ 40,000	210 EARL WARREN HALL SUPPORT: GRANT(PHS)
070	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA MALODOROUS PRODUCTS OF KRAFT BLACK LIQUOR COMBUSTION J.P. THOMAS UNIV OF CALIF USPHS STARTED 1963	BERKELEY BERKELEY COST	CALIF 070 CALIF \$ 26,000	213 E.W.L. SUPPORT: GRANT(PHS)

071	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA THE TOTAL EFFECT OF AIR POLLUTANTS ON BEARING CITRUS C.R. THOMPSON UNIV OF CALIF USPHS STARTED 1963	SUPPORT: GRANT(PHS)	RIVERSIDE RIVERSIDE COST	CALIF COST	071 COST
072	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA EFFECTS OF AIR POLLUTANTS ON CARBOHYDRATE METABOLISM IN CITRUS C.R. THOMPSON UNIV OF CALIF USDA, UNIVERSITY OF CALIFORNIA STARTED 1962	SUPPORT: CONTRACT(GOVT), INTERNAL	RIVERSIDE RIVERSIDE COST	CALIF COST	072 COST
073	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA EFFECTS OF AIR POLLUTANTS ON PLANT CELL STRUCTURE W.W. THOMPSON UNIV OF CALIF USPHS AND UNIVERSITY OF CALIFORNIA STARTED 1966	SUPPORT: GRANT(PHS), INTERNAL	RIVERSIDE RIVERSIDE COST	CALIF COST	073 COST
074	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA MESOCLIMATIC PATTERNS IN THE CENTRAL CALIFORNIA VALLEY W.E. VATES UNIV OF CALIF USPHS STARTED 1963	SUPPORT: GRANT(PHS)	DAVIS DAVIS COST	CALIF COST	074 COST
075	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CALIFORNIA MEDICAL CENTER BREATHMOBILE PROJECT D.P. DISCHER UNIV OF CALIF UCLA STARTED 1966	SUPPORT: INTERNAL	LOS ANGELES LOS ANGELES COST	CALIF COST	075 COST
076	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF SOUTHERN CALIFORNIA REACTIONS OF LUNG TISSUE TO AIR POLLUTANTS D.J. BALCHUN UNIV OF SO CALIF USPHS STARTED 1963	SUPPORT: GRANT(PHS)	LOS ANGELES LOS ANGELES COST	CALIF COST	076 COST
077	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF SOUTHERN CALIFORNIA THE EVOLUTION OF PULMONARY EMPHYSEMA D.J. BALCHUN UNIV OF SO CALIF USPHS STARTED 1962	2208 ZONAL AVE SUPPORT: GRANT(PHS)	LOS ANGELES LOS ANGELES COST	CALIF COST	077 COST
078	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF SOUTHERN CALIFORNIA STUDY OF EXPERIMENTAL ANIMALS EXPOSED TO AMBIENT AIR POLLUTION L.A. CHAMBERS UNIV OF SO CALIF USPHS STARTED 1962	2025 ZONAL AVE SUPPORT: GRANT(PHS), CONTRACT(GOVT)	LOS ANGELES LOS ANGELES COST	CALIF COST	078 COST
079	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF SOUTHERN CALIFORNIA AIR POLLUTION CONTROL INSTITUTE COMPUTER EXERCISE K.W. LEPFLAND UNIV OF SO CALIF USPHS STARTED 1966	SUPPORT: GRANT(PHS)	LOS ANGELES LOS ANGELES COST	CALIF COST	079 COST
080	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF SOUTHERN CALIFORNIA AIR POLLUTION AND HEALTH EFFECTS IN LOS ANGELES P. WEHRLE UNIV OF SO CALIF USPHS STARTED 1961	1200 N. STATE ST. SUPPORT: CONTRACT(GOVT)	LOS ANGELES LOS ANGELES COST	CALIF COST	080 COST

081	CALIFORNIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	WESTERN PRECIPITATION DIVISION OF JOY MFG. CO TREATMENT OF FLUE GAS FOR SO ₂ REDUCTION E.L. COE, JR. JOY MFG. CO. 1000 W. 9TH ST. WESTERN PRECIPITATION DIVISION OF JOY MFG. CO. STARTED 1966 SUPPORT: INTERNAL	LOS ANGELES CALIF LOS ANGELES CALIF COST \$ 50,000	081
082	COLORADO TITLE INVESTIGATOR SPONSOR PROJECT DATA	COLORADO STATE UNIVERSITY DIFFUSION IN SHEAR FLOWS WITH THERMAL STRATIFICATION J.E. CERMAK COLORADO STATE UNIV USPHS STARTED 1959 SUPPORT: GRANT(PHS)	FT. COLLINS COL FT. COLLINS COL COST \$ 29,000	082
083	COLORADO TITLE INVESTIGATOR SPONSOR PROJECT DATA	COLORADO STATE UNIVERSITY A STUDY OF DENVER AIR POLLUTION H. RIEHL COLORADO STATE UNIV USPHS STARTED 1963 SUPPORT: GRANT(PHS)	FT. COLLINS COL FT. COLLINS COL COST \$ 42,000	083
084	COLORADO TITLE INVESTIGATOR SPONSOR PROJECT DATA	NATIONAL CENTER FOR ATMOSPHERIC RESEARCH GENERAL INVESTIGATION OF ATMOSPHERIC CHEMISTRY J.P. LODGE JR NATL CEN ATMOS RES NSF STARTED 1961 SUPPORT: CONTRACT(GOVT)	BOULDER COL BOULDER COLO COST \$220,000	084
085	COLORADO TITLE INVESTIGATOR SPONSOR PROJECT DATA	NATIONAL CENTER FOR ATMOSPHERIC RESEARCH ATMOSPHERIC GEOCHEMISTRY STUDIES E.A. MARTELL NATL CEN ATMOS RES UCAR, NSF, AND NASA STARTED 1963 SUPPORT: CONTRACT(GOVT)	BOULDER COL BOULDER COL COST \$250,000	085
086	COLORADO TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY CORPORATION FOR ATMOSPHERIC RESEARCH REACTIONS OF ATOMIC OXYGEN R.D. CADLE UNIV. CORP. USPHS STARTED 1964 SUPPORT: GRANT(PHS)	BOULDER COL BOULDER COL COST \$ 12,000	086
087	COLORADO TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF COLORADO CATALYTIC MECHANISMS FOR NITROGEN OXIDES REDUCTION M.S. PETERS UNIV. OF COLORADO USPHS & UNIV. OF COL STARTED 1965 SUPPORT: GRANT(PHS)	BOULDER COL BOULDER COL COST \$ 30,000	087
088	COLORADO TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF COLORADO GAS CHROMATOGRAPHY OF OXIDANTS IN AIR POLLUTION P. URONE UNIV. OF COLORADO USPHS STARTED 1965 SUPPORT: GRANT(PHS)	BOULDER COL BOULDER COL COST \$ 11,000	088
089	COLORADO TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF COLORADO TRACER TECHNIQUES IN AIR POLLUTION OF SULFUR DIOXIDE P. URONE UNIV. OF COLORADO USPHS STARTED 1964 SUPPORT: GRANT(PHS)	BOULDER COL BOULDER COL COST \$ 12,000	089
090	CONNECTICUT TITLE INVESTIGATOR SPONSOR PROJECT DATA	CONNECTICUT AGRICULTURAL EXPERIMENT STATION NATURE AND CONTROL OF OZONE INJURY TO PLANTS S. RICH CONN. AGR. EXP. STA. USPHS STARTED 1965 SUPPORT: GRANT(PHS)	NEW HAVEN CONN NEW HAVEN CONN COST \$ 19,000	090

091	CONNECTICUT TITLE INVESTIGATOR SPONSOR PROJECT DATA	JOHN B. PIERCE FOUNDATION OF CONNECTICUT, INC. PHYSIOLOGICAL STUDIES ON AIR POLLUTION A. BOUHUYS J.B. PIERCE FOUND. USPHS STARTED 1966 SUPPORT: GRANT(PHS)	NEW HAVEN NEW HAVEN COST	CONN CONN \$ 75,000	091
092	CONNECTICUT TITLE INVESTIGATOR SPONSOR PROJECT DATA	SILENT GLOW CORPORATION TESTS ON CREMATORY DESTRUCTORS TO DETERMINE PARTICULATE EMISSIONS W.H. MCCLURG SILENT GLOW CORP. 850 WINDSOR STREET STARTED 1966 SUPPORT: INTERNAL	HARTFORD HARTFORD COST	CONN CONN \$ 6,000	092
093	CONNECTICUT TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CONNECTICUT SPONTANEOUS CANINE PULMONARY TUMORS S.W. NIELSEN UNIV. OF CONN. UNIVERSITY OF CONNECTICUT STARTED 1961 SUPPORT: INTERNAL	STORRS STORRS COST	CONN CONN \$ 6,000	093
094	DELAWARE TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF DELAWARE EFFECTS OF AIR POLLUTANTS ON PLANT GROWTH D.F. CROUSAN UNIV. OF DELAWARE USPHS STARTED 1963 SUPPORT: GRANT(PHS)	NEWARK NEWARK COST	DEL DEL \$ 6,000	094
095	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	ATOMIC ENERGY COMMISSION, DIV. OF BIOLOGY AND MEDICINE RESEARCH PROGRAM ON ATMOSPHERIC RADIOACTIVITY AND FALLOUT J.Z. HOLLAND USAEC STARTED 1959 SUPPORT: GRANT(AEC)	WASHINGTON WASHINGTON COST	DC DC \$ 11,000	095
096	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	CATHOLIC UNIVERSITY OF AMERICA PHOTOCHEMICAL DECOMPOSITION OF SULFUR DIOXIDE R.B. TIMMONS CATH. UNIV. OF AMER USPHS STARTED 1966 SUPPORT: GRANT(PHS)	WASHINGTON WASHINGTON COST	DC DC \$ 11,000	096
097	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	CHILDRENS CONVALESCENT HOSPITAL ATMOSPHERIC POLLUTION AND RESPIRATORY DISEASE R.E. SNELL CHILDRENS CONV. HOS USPHS STARTED 1966 SUPPORT: GRANT(PHS)	WASHINGTON WASHINGTON COST	DC DC \$ 131,000	097
098	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	BENJAMIN S. LEVINE SURVEY OF USSR LITERATURE ON AIR POLLUTION + RELATED OCCUPATIONAL DISEASES B.S. LEVINE B.S. LEVINE 3312 NORTHAMPTON ST. N USPHS STARTED 1957 SUPPORT: GRANT(PHS)	WASHINGTON WASHINGTON COST	DC DC \$ 17,000	098
099	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR POLLUTION BY CHLORINE IN COAL COMBUSTION D. BIENSTOCK US BUR OF MINES 4800 FORBES AVE. USPHS STARTED 1966 SUPPORT: GRANT(PHS)	WASHINGTON PITTSBURGH COST	DC PENN \$ 20,000	099
100	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR COMPOSITION, SMOKE, AND ODOR OF DIESEL EXHAUSTS T.D. COSTAIN US BUREAU OF MINES P.O. BOX 1398 USPHS STARTED 1966 SUPPORT: CONTRACT(GOVT)	WASHINGTON BARTLESVILLE COST	DC OKLA \$ 62,000	100

101	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR EFFECTS OF ENGINE FUEL, • COMBUSTION SYST PARAMETERS ON VEHICULAR EMISSIONS Y.O. COSTAIN US BUREAU OF MINES USPHS STARTED 1962	WASHINGTON DC BARTLESVILLE OKLA P.O. BOX 1398	101
		SUPPORT: CONTRACT (GOVT)	COST \$ 72,000	
102	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR DEVELOPMENT OF A DRY COAL CLEANING VESSEL A.W. DEURBROUCK US BUREAU OF MINES STARTED 1965	WASHINGTON DC BRUCETON PENN US BUREAU OF MINES	102
		SUPPORT: INTERNAL	COST \$ 30,000	
103	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR STUDY OF WASHABILITY OF SELECTED COALS WITH RESPECT TO PYRITE REMOVAL A.W. DEURBROUCK US BUREAU OF MINES USPHS STARTED 1965	WASHINGTON DC BRUCETON PENN US BUREAU OF MINES	103
		SUPPORT: GRANT (PHS)	COST \$ 25,000	
104	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR DESULFURIZATION OF COAL BY FROTH FLOTATION A.W. DEURBROUCK US BUREAU OF MINES STARTED 1965	WASHINGTON DC BRUCETON PENN US BUREAU OF MINES	104
		SUPPORT: INTERNAL	COST \$ 30,000	
105	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR CHARACTERISTICS AND PHOTOCHEMICAL REACTIVITY OF VEHICULAR EMISSIONS B. DIMITRIADES US BUREAU OF MINES USPHS STARTED 1966	WASHINGTON DC BARTLESVILLE OKLA P.O. BOX 1398	105
		SUPPORT: CONTRACT (GOVT)	COST \$ 67,000	
106	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR MECHANISMS OF AIR POLLUTION REACTIONS B. DIMITRIADES US BUREAU OF MINES USPHS STARTED 1966	WASHINGTON DC BARTLESVILLE OKLA P.O. BOX 1398	106
		SUPPORT: CONTRACT (GOVT)	COST \$ 20,000	
107	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR EFFECT OF FUEL VOLATILITY ON AUTOMOTIVE EMISSIONS B.W. ECCLESTON AMERICAN PETROLEUM INSTITUTE US BUREAU OF MINES STARTED 1966	WASHINGTON DC BARTLESVILLE OKLA P.O. BOX 1398	107
		SUPPORT: CONTRACT (PRIV)	COST \$230,000	
108	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR CHARACTERISTICS • REMOVAL OF PYRITIC SULFUR FROM SELECTED AMERICAN COALS S. ERGUN US BUREAU OF MINES USPHS STARTED 1965	WASHINGTON DC PITTSBURGH PENN 4800 FORBES AVE.	108
		SUPPORT: GRANT (PHS)	COST \$ 35,000	
109	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR REMOVAL OF PYRITIC SULFUR FROM COAL BY MAGNETIC MEANS S. ERGUN U.S. BUREAU OF MINES STARTED 1964	WASHINGTON DC PITTSBURGH PENN 4800 FORBES AVE.	109
		SUPPORT: INTERNAL	COST \$ 35,000	
110	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR REMOVAL OF SULFUR OXIDES BY ADDITION OF LIMESTONE J.M. FIELD US BUREAU OF MINES STARTED 1966	WASHINGTON DC PITTSBURGH PENN 4800 FORBES AVE.	110
		SUPPORT: INTERNAL	COST \$ 50,000	

111	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR REMOVAL OF SO ₂ FROM FLUE GAS USING MANGANESE OXIDES + IMPROVED REGENERATION J.W. FIELD US BUR. OF MINES USPHS STARTED 1958	WASHINGTON DC PITTSBURGH PENN 4800 FORBES AVE. SUPPORT: GRANT(PHS), INTERNAL	111	COST \$ 60,000
112	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR ALKALIZED ALUMINA PROCESS FOR SO ₂ REMOVAL FROM FLUE GAS J.W. FIELD US BUR. OF MINES USPHS STARTED 1955	WASHINGTON DC PITTSBURGH PENN 4800 FORBES AVE. SUPPORT: GRANT(PHS)	112	COST \$200,000
113	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR EVALUATION OF PROCESSES FOR DESULFURIZING PETROLEUM-TYPE OILS R.W. HITESHUE US BUREAU OF MINES US BUREAU OF MINES STARTED 1966	WASHINGTON DC PITTSBURGH PENN 4800 FORBES AVE. SUPPORT: INTERNAL	113	COST \$ 3,000
114	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR STUDY OF REACTIONS OF COAL AND PITCH WITH SO ₂ R.W. HITESHUE US BUREAU OF MINES US BUREAU OF MINES STARTED 1966	WASHINGTON DC PITTSBURGH PENN 4800 FORBES AVE. SUPPORT: INTERNAL	114	COST \$ 23,000
115	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR EXPERIMENTAL PROCEDURES FOR VEHICLE EMISSIONS MEASUREMENT D.E. SEIZINGER US BUREAU OF MINES COORDINATING RESEARCH COUNCIL STARTED 1965	WASHINGTON DC BARTLESVILLE OKLA P.O. BOX 1398 SUPPORT: CONTRACT(PRIV), INTERNAL	115	COST \$ 40,000
116	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES BUREAU OF MINES, DEPT. OF THE INTERIOR ANALYSIS OF SELECTED AMERICAN COALS FOR PYRITIC SULFUR F.E. WALKER US BUR OF MINES USPHS STARTED 1965	WASHINGTON DC PITTSBURGH PENN 4800 FORBES AVE. SUPPORT: GRANT(PHS)	116	COST \$ 10,000
117	DIST OF COL TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNITED STATES DEPT OF AGRICULTURE-COOP. RESEARCH SER AIR POLLUTION PROBLEMS IN THE NORTHEAST A.J. LOUSTALOT U.S. DEPT. OF AGRICULTURE STARTED 1966	WASHINGTON DC WASHINGTON DC SUPPORT: INTERNAL, OTHER	117	COST \$ 52,000
118	FLORIDA TITLE INVESTIGATOR SPONSOR PROJECT DATA	RESOURCES RESEARCH, INC. MANUAL OF ANALYTICAL METHODS FOR AIR POLLUTANTS IN THE ATMOSPHERE E.R. HENDRICKSON RESOURCES RESEARCH USPHS STARTED 1963	GAINESVILLE FLA GAINESVILLE FLA P.O. BOX 1305 SUPPORT: GRANT(PHS)	118	COST \$ 65,000
119	FLORIDA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF FLORIDA CONFERENCE - ATMOSPHERIC EMISSIONS FROM SULFATE PULPING E.R. HENDRICKSON UNIV. OF FLORIDA USPHS STARTED 1966	GAINESVILLE FLA GAINESVILLE FLA SUPPORT: GRANT(PHS)	119	COST \$ 15,000
120	FLORIDA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF FLORIDA BEHAVIOR OF AEROSOL PARTICLES R.S. SHOLTES UNIV. OF FLORIDA USPHS STARTED 1966	GAINESVILLE FLA GAINESVILLE FLA SUPPORT: GRANT(PHS)	120	COST \$ 21,000

121	FLORIDA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF FLORIDA - GULF COAST EXPERIMENT STATION EFFECT OF FLUORIDES ON THE METABOLISM OF HISHER PLANTS S.S. WOLTZ UNIV. OF FLORIDA USPHS STARTED 1961	SUPPORT: GRANT (PHS), INTERNAL	BRADENTON BRADENTON COST	FLA FLA \$ 6,000	121
122	FLORIDA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MIAMI, SCHOOL OF MEDICINE PROTEIN BINDING AND METABOLISM OF 3-NITRO-3-MEXENE K.F. LAMPE UNIV. OF MIAMI USPHS STARTED 1965	SUPPORT: GRANT (PHS)	MIAMI MIAMI COST	FLA FLA \$ 18,000	122
123	GEORGIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	GEORGIA INSTITUTE OF TECHNOLOGY AIR CLEANING BY HIGH-SPEED INERTIAL IMPACTION C. ORR GA INST OF TECH USPHS STARTED 1964	SUPPORT: GRANT (PHS)	ATLANTA ATLANTA COST	GA GA \$ 16,000	123
124	GEORGIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	GEORGIA INSTITUTE OF TECHNOLOGY A STUDY OF VIBRATING-CAPILLARY ATOMIZERS C. ORR JR GA INST OF TECH USPHS STARTED 1964	SUPPORT: GRANT (PHS)	ATLANTA ATLANTA COST	GA GA \$ 15,000	124
125	GEORGIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	GEORGIA INSTITUTE OF TECHNOLOGY HYSTERESIS IN SMOG AND FOG DISAPPEARANCE C. ORR JR GA INST OF TECH USPHS STARTED 1964	SUPPORT: GRANT (PHS)	ATLANTA ATLANTA COST	GA GA \$ 19,000	125
126	GEORGIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF GEORGIA MECHANISMS OF OZONOLYSIS P.R. STORY UNIV. OF GA. USPHS STARTED 1966	SUPPORT: GRANT (PHS)	ATHENS ATHENS COST	GA GA \$ 31,000	126
127	HAWAII TITLE INVESTIGATOR SPONSOR PROJECT DATA	HAWAII STATE DEPT. OF HEALTH TO MEASURE BASELINE LEVELS OF CONTAMINANTS IN THE ATMOSPHERE R.S. NAKAMOTO HAW ST DEPT OF HEA USPHS STARTED 1965	SUPPORT: GRANT (PHS)	HONOLULU HONOLULU COST	HAW HAW \$ 24,000	127
128	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	AMERICAN MEDICAL ASSOCIATION AIR POLLUTION MEDICAL RESEARCH CONFERENCE M.T. WEISBURD AMER. MED. ASS. USPHS STARTED 1966	SUPPORT: GRANT (PHS)	CHICAGO CHICAGO COST	ILL ILL \$ 11,000	128
129	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	ARGONNE NATIONAL LABORATORY ZPPR ROOF SAND FILTRATION OF URANIUM, PLUTONIUM AND URANINE AEROSOLS C.L. CHEEVER ARGONNE NATL LAB ARGONNE NATIONAL LABORATORY STARTED	SUPPORT: INTERNAL	ARGONNE ARGONNE COST	ILL ILL \$ 10,000	129
130	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	ARGONNE NATIONAL LABORATORY MEASUREMENTS OF RADIOACTIVE NUCLIDES IN AIR ON ARG. NATL. LAB. SITE + VICINITY J.F. EGE, JR. ARGONNE NATL LAB USAE STARTED 1949	SUPPORT: GRANT (AEC)	ARGONNE ARGONNE COST	ILL ILL \$ 25,000	130

131	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	ARGONNE NATIONAL LABORATORY CHARACTERIZATION OF FLUORIDE VOLATILITY EFFLUENTS UNDER ACCIDENT CONDITION A.A. JONKE ARGONNE NATL LAB 9700 SOUTH CASS AVE USAEC STARTED 1966	SUPPORT: GRANT(AEC)	ARGONNE ARGONNE ARGONNE COST \$130,000	ILL ILL	131
132	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	ARGONNE NATIONAL LABORATORY STUDIES OF PHYSICAL PROCESSES IN THE SURFACE BOUNDARY LAYER H. MOSES ARGONNE NATL LAB 9700 SOUTH CASS AVE USAEC STARTED 1949	SUPPORT: CONTRACT(PRIV)	ARGONNE ARGONNE	ILL ILL	132
133	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	ARGONNE NATIONAL LABORATORY ATMOSPHERIC DIFFUSION STUDIES H. MOSES ARGONNE NATL LAB 9700 SOUTH CASS AVE USAEC STARTED 1953	SUPPORT: GRANT(AEC)	ARGONNE ARGONNE	ILL ILL	133
134	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	ARGONNE NATIONAL LABORATORY MONITORING AIRBORNE RADIOACTIVITY NEAR A NUCLEAR REACTOR H. MOSES ARGONNE NATL LAB 9700 SOUTH CASS AVE USAEC STARTED 1947	SUPPORT: GRANT(AEC)	ARGONNE ARGONNE	ILL ILL	134
135	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	ARMOUR RESEARCH INSTITUTE A STUDY OF THE INTERACTIONS OF AIR POLLUTIONS R. EHRLICH ARMOUR RES. INST. 10 W. 35TH ST. LSPHS STARTED 1959	NO2 AND BACT. INFECTION SUPPORT: CONTRACT(GOVT)	CHICAGO CHICAGO COST \$ 78,000	ILL ILL	135
136	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	ARMOUR RESEARCH FOUNDATION EFFECTS OF ATMOSPHERIC POLLUTANTS ON SUSCEPTIBILITY TO RESP. INFECTION R. EHRLICH ARMOUR RES. FOUND. 10 W. 35TH ST. LSPHS STARTED 1959	SUPPORT: CONTRACT(GOVT)	CHICAGO CHICAGO COST \$ 80,000	ILL ILL	136
137	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	CHICAGO HEALTH RESEARCH FOUNDATION EFFECT OF AIR POLLUTION ON HEALTH W. LEPPER CHIC. HEA. RES. FOUND 840 SOUTH WOOD ST. USPHS STARTED 1963	SUPPORT: GRANT(PHS)	URBANA URBANA COST \$ 76,000	ILL ILL	137
138	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	CITY OF CHICAGO, DIVISION OF AIR POLLUTION CONTROL DEVELOPMENT OF A COMPREHENSIVE LOCAL AIR POLLUTION CONTROL PROGRAM W.J. STANLEY DAP - CHICAGO 320 NORTH CLARK ST. USPHS STARTED 1964	SUPPORT: GRANT(PHS)	CHICAGO CHICAGO COST \$393,000	ILL ILL	138
139	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	EVANSTON HOSPITAL ASSOCIATION IN VIVO STUDIES OF CILIATED MAMMALIAN EPITHELIUM J.J. BALLENGER EVANSTON HOSP. ASS. USPHS STARTED 1960	SUPPORT: GRANT(PHS)	EVANSTON EVANSTON COST \$ 9,000	ILL ILL	139
140	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOYOLA UNIVERSITY STUDY OF AIR POLLUTANTS BY ABSORPTION SPECTROSCOPY C.E. MOORE LOYOLA UNIV. USPHS STARTED 1963	SUPPORT: GRANT(PHS)	CHICAGO CHICAGO COST \$ 18,000	ILL ILL	140

141	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	MCCRONE RESEARCH INSTITUTE, INCORPORATED MICROSCOPIC IDENTIFICATION OF ATMOSPHERIC PARTICULATES W.C. MCCRONE MCCRONE RES. INST. 493 E. 31ST. USPHS, MCCRONE RESEARCH INSTITUTE STARTED 1950 SUPPORT: CON. (GOVT), INT., OTHER	CHICAGO ILL CHICAGO ILL COST \$100,000	141
142	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	NORTHWESTERN UNIVERSITY LASER MEASUREMENT OF AIR POLLUTION PARAMETERS E.W. BARRETT NORTHWESTERN UNIV. USPHS STARTED 1965 SUPPORT: GRANT (PHS)	EVANSTON ILL EVANSTON ILL COST \$ 9,000	142
143	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	NORTHWESTERN UNIVERSITY SIZE DISTRIBUTION OF AEROSOLS CONTINUALLY REINFORCED WITH PARTICLES J.E. OJON NORTHWESTERN UNIV. USPHS STARTED 1962 SUPPORT: GRANT (PHS)	EVANSTON ILL EVANSTON ILL	143
144	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	POLYTECHNIC, INC. AIR POLLUTION ZONING IN PROVIDENCE, R.I. W.A. SALZENSTEIN POLYTECHNIC, INC. 493 E. 31ST ST. CITY OF PROVIDENCE, RHODE ISLAND STARTED 1966 SUPPORT: CONTRACT (GOVT)	CHICAGO ILL CHICAGO ILL COST \$ 5,000	144
145	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	SHELL OIL COMPANY, WOOD RIVER RESEARCH LAB. FUEL FACTORS IN AUTOMOTIVE EXHAUST EMISSIONS R.J. GREENSHIELDS SHELL OIL CO. P.O. BOX 262 SHELL OIL CO., WOOD RIVER RESEARCH LAB. STARTED 1957 SUPPORT: INTERNAL	WOOD RIVER ILL WOOD RIVER ILL COST \$150,000	145
146	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ILLINOIS MINERAL MATTER IN COAL W.J. GLUSKOTER UNIV. OF ILL. USPHS STARTED 1966 SUPPORT: GRANT (PHS)	URBANA ILL URBANA ILL COST \$ 75,000	146
147	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ILLINOIS ANALYTICAL STUDIES IN AIR POLLUTION C.E. GRACIAS UNIV. OF ILL. USPHS STARTED 1965 SUPPORT: GRANT (PHS)	CHICAGO ILL CHICAGO ILL COST \$ 37,000	147
148	ILLINOIS TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ILLINOIS CONTROLLED SOURCE OF UNIFORM LIQUID DROPLETS C. HENDRICKS UNIV. OF ILL. USPHS STARTED 1966 SUPPORT: GRANT (PHS)	URBANA ILL URBANA ILL COST \$ 32,000	148
149	INDIANA TITLE INVESTIGATOR SPONSOR PROJECT DATA	INDIANA UNIVERSITY FOUNDATION PHYSICAL CHEMISTRY OF AEROSOLS F.T. GUCKER IND. UNIV. FOUND. USPHS STARTED 1965 SUPPORT: GRANT (PHS)	BLOOMINGTON IND BLOOMINGTON IND COST \$ 24,000	149
150	KANSAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	KANSAS STATE UNIVERSITY OF AGRICULTURE & APPLIED SCI DIURNAL INVESTIGATIONS OF AIRBORNE FUNGI S.M. PADY KAN STATE UNIV. USPHS STARTED 1956 SUPPORT: GRANT (PHS)	MANHATTAN KAN MANHATTAN KAN COST \$ 25,000	150

151	KANSAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	KANSAS STATE UNIVERSITY OF AGRICULTURE + APPLIED SCI KINETIC BEHAVIOR OF INORGANIC RADICALS D.W. SETSER KAN STATE UNIV USPHS STARTED 1965	SUPPORT: GRANT (PHS)	MANHATTAN KAN MANHATTAN KAN COST \$ 12,000	151
152	LOUISIANA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOUISIANA STATE UNIVERSITY TRACE ANALYSIS METHODS FOR AIR POLLUTION STUDIES P.W. WEST LA STATE UNIV USPHS STARTED 1962	SUPPORT: GRANT (PHS)	BATON ROUGE LA BATON ROUGE LA COST \$130,000	152
153	LOUISIANA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOUISIANA STATE UNIVERSITY SEPARATION AND ESTIMATION OF AIRBORNE PARTICULATES P.W. WEST LA STATE UNIV USPHS STARTED 1962	SUPPORT: GRANT (PHS)	BATON ROUGE LA BATON ROUGE LA COST \$ 36,000	153
154	LOUISIANA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LOYOLA UNIVERSITY AIR POLLUTION ASTHMA IN NEW ORLEANS - MICROBIOLOGIC SURVEY J.M. MULLAHY LOYOLA UNIV. USPHS STARTED 1965	6363 ST. CHARLES AVE. SUPPORT: CONTRACT (GOVT)	NEW ORLEANS LA NEW ORLEANS LA COST \$ 2,000	154
155	LOUISIANA TITLE INVESTIGATOR SPONSOR PROJECT DATA	NATIONAL COUNCIL FOR STREAM IMPROVEMENT, INC. APPLIED RESEARCH IN PULP AND PAPER INDUSTRY H.W. GEHR NATL. COUN. STR. IMPR NATIONAL COUNCIL FOR STREAM IMPROVEMENT, INC. STARTED 1953	SUPPORT: CONTRACT (PRIV)	BATON ROUGE LA BATON ROUGE LA COST \$ 60,000	155
156	LOUISIANA TITLE INVESTIGATOR SPONSOR PROJECT DATA	TULANE UNIVERSITY - MEDICAL SCHOOL PRELIMINARY REVIEW OF ASTHMA MORBIDITY REPORTED IN SEVERAL CITIES IN LA. R. LEWIS TULANE UNIV-MED. SCH USPHS STARTED 1966	1630 TULANE AVE. SUPPORT: CONTRACT (GOVT)	NEW ORLEANS LA NEW ORLEANS LA COST \$ 1,000	156
157	LOUISIANA TITLE INVESTIGATOR SPONSOR PROJECT DATA	TULANE UNIVERSITY, SCHOOL OF MEDICINE ASSESSMENT OF CHANGES PRODUCED WHEN PATIENTS WITH RESPIR DIS BREATHE OZONE H.M. ZISKIND TULANE UNIV USPHS STARTED 1961	1630 TULANE AVE SUPPORT: CONTRACT (GOVT)	NEW ORLEANS LA NEW ORLEANS LA COST \$ 57,000	157
158	MAINE TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MAINE CHEMICAL FACTORS RELATED TO KRAFT PAPER CONTROL I.B. DOUGLASS UNIV. OF MAINE USPHS STARTED 1964	SUPPORT: GRANT (PHS)	ORONO ME ORONO ME COST \$ 26,000	158
159	MARYLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	AGRICULTURAL RESEARCH SERVICE EFFECT OF AIR POLLUTANTS ON TOBACCO PRODUCTION H.A. MENSER AGRIC. RES. SER. U.S. DEPT. OF AGRICULTURE CORPS RESEARCH DIVISION STARTED 1959	PLANT INDUSTRY STA. SUPPORT: INTERNAL	BELTSVILLE MD BELTSVILLE MD COST \$ 15,000	159
160	MARYLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	ARMY CHEMICAL CORP. BIOL. WARFARE LABS, FORT DETRICK EVALUATION OF FILTERS WITH BIOLOGICAL ORGANISMS AS THE TEST MATERIAL H.M. DECKER U.S. ARMY BIO. LABS. USPHS STARTED	SUPPORT: CONTRACT (GOVT), INTERNAL	FREDERICK MD FREDERICK MD	160

161	MARYLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION METEOROLOGICAL INFLUENCES ON THE SITING + OPERATION OF NUCLEAR REACTORS L. WACHTA ESSA 8060 13TH ST. USAEC STARTED 1951	SILVER SPRNGS MD SILVER SPRNGS MD COST \$337,000	161
162	MARYLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION DEVELOP. + APPLICATION OF METEOROLOGICAL OBSERVING + FORECASTING TECHNIQUES L. WACHTA ESSA 8060 13TH ST. USAEC STARTED 1956	SILVER SPRNGS MD SILVER SPRNGS MD COST \$ 1,772,000	162
163	MARYLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION METEOROLOGICAL STUDIES OF RADIOACTIVE FALLOUT L. WACHTA ESSA 8060 13TH ST. USAEC STARTED 1952	SILVER SPRNGS MD SILVER SPRNGS MD COST \$168,000	163
164	MARYLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION METEOROLOGICAL INFLUENCES ON APPLICATION OF PESTICIDES IN FOREST AREAS L. WACHTA ESSA 8060 13TH ST. US DEPT. OF AGRICULTURE STARTED 1966	SILVER SPRNGS MD SILVER SPRNGS MD COST \$ 20,000	164
165	MARYLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION DISPERSION OF RADIOACTIVE AEROSOLS AND GASES IN THE ATMOSPHERE D. PACK ESSA 8060-13TH ST. GRAMAX USAEC STARTED 1949	SILVER SPRNGS MD SILVER SPRNGS MD COST \$340,000	165
166	MARYLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	JOHNS HOPKINS UNIVERSITY CARDIOPULMONARY PHYSIOLOGY IN BRONCHIAL ASTHMA S. PERMUTT JOHNS HOPKINS UNIV. USPHS STARTED 1961	BALTIMORE MD BALTIMORE MD COST \$ 42,000	166
167	MARYLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	JOHN HOPKINS UNIVERSITY PHYSIOLOGY AND PATHOLOGY OF AIRWAYS AND AIR HYGIENE D.F. PROCTOR JOHN HOPKINS UNIV. USPHS STARTED 1965	BALTIMORE MD BALTIMORE MD COST \$ 91,000	167
168	MARYLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	KOPPERS COMPANY INC. EVALUATION OF NEW + MORE ECONOMICAL APPROACHES TO EFFICIENT GAS CLEANING J.L. MCKENEN KOPPERS CO. INC. 200 SCOTT ST. STARTED 1966	BALTIMORE MD BALTIMORE MD. COST \$ 15,000	168
169	MARYLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MARYLAND ENVIRONMENTAL FACTORS AND CHRONIC BRONCHITIS W.S. SPICER UNIV. OF MARYLAND USPHS STARTED 1960	BALTIMORE MD BALTIMORE MD COST \$189,000	169
170	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	AMERICAN METEOROLOGICAL SOCIETY FOURTH INTERNATIONAL BIOMETEOROLOGICAL CONGRESS F. SARGENT AMER. METEOR. SOC. USPHS STARTED 1966	BOSTON MASS BOSTON MASS COST \$ 8,000	170

171	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	HARVARD UNIVERSITY GASEOUS REACTIONS OF CARBENES G.B. KISTIAKOWSKY HARVARD UNIV. USPHS STARTED 1964 SUPPORT: GRANT (PHS)	CAMBRIDGE MASS CAMBRIDGE MASS COST \$ 12,000	171
172	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	HARVARD UNIVERSITY, SCHOOL OF PUBLIC HEALTH PHYSIOLOGICAL RESPONSE TO ATMOSPHERIC POLLUTANTS M.O. AMDUR HARVARD UNIV. USPHS STARTED 1955 SUPPORT: GRANT (PHS)	BOSTON MASS BOSTON MASS COST \$ 37,000	172
173	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	HARVARD UNIVERSITY, SCHOOL OF PUBLIC HEALTH PERFORMANCE FACTORS FOR RESPIRATORS AND GAS MASKS W.A. BURGESS HARVARD UNIV. USPHS STARTED 1963 SUPPORT: GRANT (PHS)	BOSTON MASS BOSTON MASS COST \$ 28,000	173
174	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	HARVARD UNIVERSITY, SCHOOL OF PUBLIC HEALTH ENVIRONMENTAL FACTORS IN CHRONIC NON-SPECIFIC RESPIRATORY DISEASE B.G. FERRIS HARVARD UNIV. USPHS STARTED SUPPORT: GRANT (PHS)	BOSTON MASS BOSTON MASS COST \$ 29,000	174
175	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	HARVARD UNIVERSITY, SCHOOL OF PUBLIC HEALTH MECHANICAL FACTORS IN THE CONTROL OF BREATHING J. MEAD HARVARD UNIV. USPHS STARTED 1962 SUPPORT: GRANT (PHS)	BOSTON MASS BOSTON MASS COST \$ 45,000	175
176	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	HARVARD UNIVERSITY, SCHOOL OF PUBLIC HEALTH DEPOSITION AND CLEARANCE OF PARTICLES IN LUNGS J.L. WHITTENBERGER HARVARD UNIV. USPHS STARTED 1966 SUPPORT: GRANT (PHS)	BOSTON MASS BOSTON MASS	176
177	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	HARVARD UNIVERSITY, SCHOOL OF PUBLIC HEALTH R&D ON NEW AIR CLEANING TECHNIQUES AND TESTING METHODS J.L. WHITTENBERGER HARVARD UNIV. USAEC STARTED 1947 SUPPORT: GRANT (AEC)	BOSTON MASS BOSTON MASS COST \$116,000	177
178	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	MASSACHUSETTS INSTITUTE OF TECHNOLOGY PLANETARY TRANSPORT PROCESSES IN THE UPPER ATMOSPHERE R.E. NEWELL MASS INST OF TECH 94-1920, M.I.T. USAEC, M.I.T. STARTED 1964 SUPPORT: GRANT (AEC), INTERNAL	CAMBRIDGE MASS CAMBRIDGE MASS COST \$ 25,000	178
179	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	MASSACHUSETTS INSTITUTE OF TECHNOLOGY HETERO-HOMOGENEOUS CATALYSIS OF AIR POLLUTANTS C.N. SATTERFIELD MASS. INST. OF TECH USPHS STARTED 1966 SUPPORT: GRANT (PHS)	CAMBRIDGE MASS CAMBRIDGE MASS COST \$ 7,000	179
180	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	NORTHEASTERN UNIVERSITY PRELIM. INVESTIGATION OF LOW LEVEL BACKGROUND SO2 POLL. IN LARGE AIR MASS C.W. JANKOWSKI NORTHEASTERN UNIV. STARTED 1965 SUPPORT:	BOSTON MASS BOSTON MASS	180

181	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	SPERRY RAND PROTOTYPE TEMPERATURE PROFILE PROBE SYSTEM W. MOUNT USPHS STARTED 1966	BOSTON BOSTON COST	MASS MASS \$ 95,000	181
		SUPPORT: CONTRACT (GOVT)			
182	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY HOSPITAL INCORPORATED EXPERIMENTAL AIR POLLUTION AND HUMAN LUNG CLEARANCE H. CONSTANTINE USPHS STARTED 1965	BOSTON BOSTON COST	MASS MASS \$ 18,000	182
		SUPPORT: GRANT (PHS)			
183	MASSACHUSETTS TITLE INVESTIGATOR SPONSOR PROJECT DATA	WORCHESTER POLYTECHNIC INSTITUTE MULTICOMPONENT EQUILIBRIUM ABSORPTION-AIR POLLUTION I. ZWIEREL USPHS STARTED 1966	WORCHESTER WORCHESTER COST	MASS MASS \$ 26,000	183
		SUPPORT: GRANT (PHS)			
184	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	AMERICAN-STANDARD INDUSTRIAL DIVISION COMPANY AIR POLLUTION CONTROL PRODUCTS T.A. WALTERS AMERICAN-STANDARD INDUSTRIAL DIVISION STARTED	DETROIT DETROIT COST	MICH MICH \$ 3,000	184
		SUPPORT: INTERNAL			
185	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	DETROIT EDISON COMPANY PREPARATION OF COMPUTER PROGRAM FOR SO ₂ DISPERSION FROM POWER PLANT STACKS E. HINES DETROIT EDISON CO. STARTED 1965	DETROIT DETROIT COST	MICH MICH \$ 3,000	185
		SUPPORT: INTERNAL			
186	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	DETROIT EDISON COMPANY STUDY OF METHODS + EQUIPMENT FOR MEASUREMENT OF DUST IN STACK GASES E. HINES DETROIT EDISON CO. STARTED 1966	DETROIT DETROIT COST	MICH MICH \$ 1,000	186
		SUPPORT: INTERNAL			
187	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	DETROIT EDISON COMPANY AEROMETRIC STUDIES IN THE VICINITY OF POWER PLANTS E. HINES DETROIT EDISON CO. STARTED 1965	DETROIT DETROIT COST	MICH MICH \$130,000	187
		SUPPORT: INTERNAL			
188	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	DETROIT EDISON COMPANY DEVELOPMENT OF AN AMMONIA PROCESS TO REMOVE SO ₂ AND SO ₃ FROM FLUE GASES E. HINES DETROIT EDISON CO. STARTED 1965	DETROIT DETROIT COST	MICH MICH \$ 7,000	188
		SUPPORT: INTERNAL			
189	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	DOW CHEMICAL COMPANY A CONTINUING PROGRAM OF AIR POLLUTION CONTROL EVALUATION E.M. ILGENFRITZ DOW CHEMICAL CO. STARTED 1959	MIDLAND MIDLAND COST	MICH MICH \$ 25,000	189
		SUPPORT: GRANT (AEC)			
190	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	ETHYL CORPORATION TRUCK AND BUS CYCLE DEVELOPMENT C. WOLCOTT JR. USPHS STARTED 1966	DETROIT DETROIT COST	MICH MICH \$ 80,000	190
		SUPPORT: CONTRACT (GOVT)			

191	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MICHIGAN CARBURETORS REDUCTION OF ENGINE EXHAUST EMISSIONS J.A. ROLT UNIV. OF MICH. USPHS STARTED 1964	SUPPORT: GRANT(PHS)	ANN ARBOR MICH 191 ANN ARBOR MICH COST \$ 38,000
192	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MICHIGAN RAIN SCAVENGING OF AIRBORNE PARTICULATES R.W. DINGLE UNIV. OF MICH. USAE STARTED 1959	SUPPORT: GRANT(AEL)	ANN ARBOR MICH 192 ANN ARBOR MICH COST \$ 45,000
193	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MICHIGAN BIOCHEMISTRY OF TRACHEAL EPITHELIUM FOLLOWING EXPOSURE TO OZONE W.D. DINMAN UNIV. OF MICH. UNIVERSITY OF MICHIGAN STARTED 1966	SUPPORT: CONTRACT(PRIV), INTERNAL	ANN ARBOR MICH 193 ANN ARBOR MICH COST \$ 1,000
194	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MICHIGAN OPTIMUM SPECIFICATIONS FOR WIND SENSING INSTRUMENTS E.W. HEWSON UNIV. OF MICH. USPHS STARTED 1962	SUPPORT: GRANT(PHS)	ANN ARBOR MICH 194 ANN ARBOR MICH COST \$ 24,000
195	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MICHIGAN MESOSCALE WIND SYSTEMS AROUND THE GREAT LAKES E.W. HEWSON UNIV. OF MICH. USPHS STARTED 1965	SUPPORT: GRANT(PHS)	ANN ARBOR MICH 195 ANN ARBOR MICH COST \$ 73,000
196	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MICHIGAN RELATION OF WALL QUENCHING OF FLAMES TO AIR POLLUTION M. MIRSKY UNIV. OF MICH. USPHS STARTED 1964	SUPPORT: GRANT(PHS)	ANN ARBOR MICH 196 ANN ARBOR MICH COST \$ 41,000
197	MICHIGAN TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MICHIGAN ATMOSPHERIC POLLUTION BY AEROALLERGEN J.W. SHELDON UNIV. OF MICH. USPHS STARTED 1955	SUPPORT: GRANT(PHS)	ANN ARBOR MICH 197 ANN ARBOR MICH COST \$ 46,000
198	MINNESOTA TITLE INVESTIGATOR SPONSOR PROJECT DATA	BURN-ZOL INC. STUDIES OF OPERATING CHARACTERISTICS OF INCINERATION J.W. WILSON BURN-ZOL INC. STARTED 1966	3924 LOUISIANA CIRCLE SUPPORT: INTERNAL	MINNEAPOLIS MINN 198 MINNEAPOLIS MINN COST \$ 20,000
199	MINNESOTA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LITTON SYSTEMS, INC. ENVIRONMENTAL POLLUTION CONTROL SYSTEMS A.W. BLOMQUIST LITTON SYSTEMS, INC. STARTED 1966	2003 E. HENNEPIN AVE. SUPPORT: INTERNAL	MINNEAPOLIS MINN 199 MINNEAPOLIS MINN COST \$ 13,000
200	MINNESOTA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LITTON SYSTEMS, INC. ATMOSPHERIC GAS AND PARTICULATE SAMPLER A.R. MCFARLAND LITTON SYSTEMS, INC. STARTED 1966	2003 E. HENNEPIN AVE. SUPPORT: INTERNAL	MINNEAPOLIS MINN 200 MINNEAPOLIS MINN COST \$ 10,000

201	MINNESOTA TITLE INVESTIGATOR SPONSOR PROJECT DATA	LITTON SYSTEMS, INC. CONTINUOUS AIR SAMPLING AND ANALYSIS SYSTEM R.G.SANDERS LITTON SYSTEMS, INC. STARTED 1966	2003 E. HENNEPIN AVE. LITTON SYSTEMS, INC.	MINNEAPOLIS MINN MINNEAPOLIS MINN	201	COST \$ 11,000
202	MINNESOTA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MINNESOTA RELATIONSHIP OF AIR POLLUTION TO ALLERGIC DISEASES D.W.COWAN UNIV. OF MINN. USPHS STARTED 1959	MAYO MEMORIAL HOSPITAL UNIV. OF MINN.	MINNEAPOLIS MINN MINNEAPOLIS MINN	202	COST \$ 42,000
203	MINNESOTA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MINNESOTA URBAN AEROSOL COUNT-SIZE RELATED TO METEOROLOGIC DATA W.J. PAULUS UNIV. OF MINN. USPHS STARTED 1966		MINNEAPOLIS MINN MINNEAPOLIS MINN	203	COST \$ 15,000
204	MINNESOTA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MINNESOTA GENERATION AND DECAY OF SMALL IONS K.T. WHITBY UNIV. OF MINN. USPHS STARTED 1961		MINNEAPOLIS MINN MINNEAPOLIS MINN	204	COST \$ 31,000
205	MINNESOTA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF MINNESOTA STUDY OF ATOMIZER AEROSOL GENERATORS K.T. WHITBY UNIV. OF MINN. USPHS STARTED 1966		MINNEAPOLIS MINN MINNEAPOLIS MINN	205	COST \$ 18,000
206	MISSOURI TITLE INVESTIGATOR SPONSOR PROJECT DATA	MIDWEST RESEARCH INSTITUTE AIR POLLUTION SURVEY J.E. BARNEY USPHS • KANSAS CITY, MISSOURI STARTED 1965	MIDWEST RES. INST. 425 VOLKER BLVD. SUPPORT: GRANT(PHS), CONTRACT(GOVT)	KANSAS CITY MO KANSAS CITY MO	206	COST \$ 26,000
207	MISSOURI TITLE INVESTIGATOR SPONSOR PROJECT DATA	MIDWEST RESEARCH INSTITUTE AIR POLLUTION SURVEY FOR THE CITY OF CLINTON, IOWA T.D. BATH MIDWEST RES INST. CITY OF CLINTON, IOWA STARTED 1965	425 VOLKER BLVD SUPPORT: CONTRACT(GOVT)	KANSAS CITY MO KANSAS CITY MO	207	COST \$ 8,000
208	MISSOURI TITLE INVESTIGATOR SPONSOR PROJECT DATA	MIDWEST RESEARCH INSTITUTE AIR POLLUTION STUDIES FOR KANSAS CITY, KANSAS T.D. BATH MIDWEST RES INST KANSAS CITY KANSAS, DEPT OF PUBLIC HEALTH STARTED 1965	425 VOLKER BLVD SUPPORT: CONTRACT(GOVT)	KANSAS CITY MO KANSAS CITY MO	208	COST \$ 9,000
209	MISSOURI TITLE INVESTIGATOR SPONSOR PROJECT DATA	MIDWEST RESEARCH INSTITUTE STUDY OF AIR POLLUTANT EFFLUENTS T.D. BATH MIDWEST RES. INST. MIDWEST RESEARCH INSTITUTE STARTED 1966	425 VOLKER BLVD. SUPPORT: INTERNAL	KANSAS CITY MO KANSAS CITY MO	209	COST \$ 7,000
210	MISSOURI TITLE INVESTIGATOR SPONSOR PROJECT DATA	ST. LOUIS UNIVERSITY ANALYSIS OF ATMOSPHERIC DUST BY ELECTRON OPTICS H.U. RHODES ST. LOUIS UNIV. USPHS STARTED 1966		ST. LOUIS MO ST. LOUIS MO	210	COST \$ 58,000

211	MONTANA TITLE INVESTIGATOR SPONSOR PROJECT DATA	MONTANA STATE UNIVERSITY POLLUTION ABATEMENT BY PROCESS GAS CHROMATOGRAPHY H.J. SCHAEER MONT. STATE UNIV. USPHS STARTED 1968 SUPPORT: GRANT (PHS)	BOZEMAN BOZEMAN COST	MONT MONT \$ 18,000	211
212	NEBRASKA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF NEBRASKA EFFECTS OF AIR POLLUTANTS ON CELLS IN VITRO D.W. PACE UNIV. OF NEBR. USPHS STARTED 1959 SUPPORT: GRANT (PHS)	LINCOLN LINCOLN COST	NEB NEBR \$ 27,000	212
213	NEVADA TITLE INVESTIGATOR SPONSOR PROJECT DATA	AIR RESOURCES FIELD RESEARCH OFFICE, U.S. ESSA STUDIES OF DISPERSION + DEPOSITION OF RADIOACTIVE DEBRIS P.W. ALLEN AIR RES. FIELD RES. 2753 S. HIGHLAND DR USAEC STARTED 1956 SUPPORT: GRANT (AEC)	LAS VEGAS LAS VEGAS COST	NEV NEV \$724,000	213
214	NEVADA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF NEVADA EFFECTS OF PURE AIR AND TERPENE VAPORS ON ORGANISMS P.W. HENT UNIV. OF NEVADA USPHS STARTED 1965 SUPPORT: GRANT (PHS)	RENO RENO COST	NEV NEV \$ 19,000	214
215	NEW HAMPSHIRE TITLE INVESTIGATOR SPONSOR PROJECT DATA	DARTMOUTH COLLEGE SULFIDE POISONING AND METHEMOGLOBINEMIA R.P. SMITH DARTMOUTH COLLEGE USPHS STARTED 1962 SUPPORT: GRANT (PHS)	HANOVER HANOVER COST	NH NH \$ 24,000	215
216	NEW JERSEY TITLE INVESTIGATOR SPONSOR PROJECT DATA	FAIRLEIGH DICKINSON UNIVERSITY TURBULENCE AND PARTICLE EROSION IN SMOKE CONTROL P. COOPERMAN FAIR. DICK. UNIV. USPHS STARTED 1963 SUPPORT: GRANT (PHS)	RUTHERFORD RUTHERFORD COST	NJ NJ \$ 18,000	216
217	NEW JERSEY TITLE INVESTIGATOR SPONSOR PROJECT DATA	NEW JERSEY COLLEGE OF MEDICINE THE CLEARANCE OF BACTERIA FROM PULMONARY TISSUE G.A. LAURENZE N.J. COLLEGE OF MED. USPHS STARTED 1961 SUPPORT: GRANT (PHS)	JERSEY CITY JERSEY CITY COST	NJ NJ \$ 88,000	217
218	NEW JERSEY TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC SERVICE ELECTRIC AND GAS COMPANY INVESTIGATION OF MULTICLONE TUBE PLUGGING IN MECHANICAL PRECIPITATORS C.E. PARKER PUBLIC SER. E. + G CO PUBLIC SERVICE ELECTRIC AND GAS COMPANY STARTED 1963 SUPPORT: INTERNAL	NEWARK NEWARK COST	NJ NJ \$ 5,000	218
219	NEW JERSEY TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC SERVICE ELECTRIC AND GAS COMPANY LOW EXCESS AIR TO REDUCE STACK EMISSION R.I. SMITH PUBLIC SER. E. + G CO PUBLIC SERVICE ELECTRIC AND GAS COMPANY STARTED 1963 SUPPORT: INTERNAL	NEWARK NEWARK COST	NJ NJ \$ 5,000	219
220	NEW JERSEY TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC SERVICE ELECTRIC AND GAS COMPANY USING BAG HOUSE COLLECTORS ON OIL AND COAL FIRED STEAM GENERATING PLANTS R.I. SMITH PUBLIC SER. E. + G CO PUBLIC SERVICE ELECTRIC AND GAS COMPANY STARTED 1964 SUPPORT: INTERNAL	NEWARK NEWARK COST	NJ NJ \$ 31,000	220

221	NEW JERSEY TITLE INVESTIGATOR SPONSOR PROJECT DATA	RESEARCH-COTTRELL, INC. RESEARCH • DEVELOPMENT ON INDUSTRIAL GAS CLEANING PROCESSES, SYSTEMS • EQUI H.J. HALL RESEARCH-COTTRELL, INC STARTED 1965	BOUND BROOK NJ BOUND BROOK NJ P.O. BOX 750 SUPPORT: INTERNAL	221	COST \$260,000
222	NEW JERSEY TITLE INVESTIGATOR SPONSOR PROJECT DATA	RUTGERS UNIVERSITY CHANGING VEGETATION AND ATMOSPHERIC POLLEN M.F. PUELL USPHS STARTED 1966	NEW BRUNSWICK NJ NEW BRUNSWICK NJ SUPPORT: GRANT (PHS)	222	COST \$ 15,000
223	NEW JERSEY TITLE INVESTIGATOR SPONSOR PROJECT DATA	RUTGERS UNIVERSITY METEOROLOGICAL ASPECTS OF AIR POLLUTION IN THE HACKENSACK MEADOWLANDS A.V. HAVENS USDA, STATE OF NEW JERSEY STARTED 1964	NEW BRUNSWICK NJ NEW BRUNSWICK NJ SUPPORT: CONTRACT (GOVT), OTHER	223	COST \$ 5,000
224	NEW JERSEY TITLE INVESTIGATOR SPONSOR PROJECT DATA	RUTGERS UNIVERSITY FUNDAMENTALS OF AIR CLEANING BY ADSORPTION PROCESSES M.J. LOW USPHS STARTED 1963	NEW BRUNSWICK NJ NEW BRUNSWICK NJ SUPPORT: GRANT (PHS)	224	COST \$ 54,000
225	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	AMERICAN PUBLIC HEALTH ASSOCIATION MANUAL OF METHODS FOR AMBIENT AIR SAMPLING AND ANALYSIS E.R. HENDRICKSON USPHS STARTED 1963	NEW YORK NY NEW YORK NY SUPPORT: GRANT (PHS)	225	COST \$ 73,000
226	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	BOYCE THOMPSON INSTITUTE FOR PLANT RESEARCH EFFECTS OF FLUORIDES ON PLANT SYSTEMS L. WEINSTEIN USPHS STARTED 1962	YONKERS NY YONKERS NY BOYCE THOMPSON INST SUPPORT: GRANT (PHS)	226	COST \$ 42,000
227	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	BROOKHAVEN NATIONAL LABORATORY FIELD STUDIES OF DIFFUSION AND DEPOSITION OF SMALL PARTICLES M.E. SMITH USAEC STARTED 1947	UPTON NY UPTON NY BROOKHAVEN NATL LAB SUPPORT: GRANT (AEC)	227	COST \$260,000
228	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	CITY COLLEGE ANALYTICAL AND ODOR STUDIES OF ORGANIC GASES IN AIR A. TURK USPHS STARTED 1958	NEW YORK NY NEW YORK NY CITY COLLEGE OF NY 139 ST. AND CONVENT A SUPPORT: GRANT (PHS)	228	COST \$ 22,000
229	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	CLARKSON COLLEGE OF TECHNOLOGY THE EFFECTS OF AIR POLLUTION ON POLYMERS H.M. JELLINEK USPHS STARTED 1966	POTSDAM NY POTSDAM NY CLARKSON COL. OF TEC SUPPORT: GRANT (PHS)	229	COST \$ 34,000
230	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	CLARKSON COLLEGE OF TECHNOLOGY PHYSICAL CHEMICAL STUDIES OF AEROSOLS M. KERKER USPHS STARTED 1962	POTSDAM NY POTSDAM NY CLARKSON COL TECH SUPPORT: GRANT (PHS)	230	COST \$ 25,000

231	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	CLARKSON COLLEGE OF TECHNOLOGY KINETICS OF ADSORPTION BY MOLECULAR SIEVES H.L. SHULMAN CLARK. COLL. OF TECH USPHS STARTED 1963	SUPPORT: GRANT(PHS)	POTSDAM NY POTSDAM NY COST \$ 18,000	231
232	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	COLUMBIA UNIVERSITY STUDY OF IRRADIATED AIR POLLUTANTS ON SPREAD FILMS A. FELMEISTER COLUMBIA UNIV. USPHS STARTED 1965	SUPPORT: GRANT(PHS)	NEW YORK NY NEW YORK NY COST \$ 17,000	232
233	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	CORNELL UNIVERSITY ATMOSPHERIC POLLUTION AND ACUTE RESPIRATORY DISEASE J.R. MCCARROLL CORNELL UNIV. USPHS STARTED 1963	SUPPORT: GRANT(PHS)	NEW YORK NY NEW YORK NY COST \$207,000	233
234	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	EASTON, R.S. CORPORATION DETERMINE TOXIC AND IRRITANT LEVELS OF FORMALDEHYDE FUMES IN THE AIR TURNER EASTON, R.S. CORP. 4907 FARRAGUT ROAD EASTON, R.S. CORP. STARTED 1966	SUPPORT: INTERNAL	BROOKLYN NY BROOKLYN NY COST \$ 5,000	234
235	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	EDISON ELECTRIC INSTITUTE FUNDAMENTAL ASPECTS OF STACK PLUME OPACITY G.E. WATKINS EDISON ELECTRIC INS 750 THIRD AVE. EDISON ELECTRIC INSTITUTE STARTED 1961	SUPPORT: INTERNAL	NEW YORK NY NEW YORK NY	235
236	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	EDISON ELECTRIC INSTITUTE PHYSIOLOGICAL EFFECTS OF SULFUR OXIDES G.E. WATKINS EDISON ELECTRIC INS 750 THIRD AVE. EDISON ELECTRIC INSTITUTE STARTED 1964	SUPPORT: INTERNAL	NEW YORK NY NEW YORK NY	236
237	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	EDISON ELECTRIC INSTITUTE CONTROL OF SULFUR DIOXIDE IN FLUE GASES FROM COAL FIRED PLANTS G.E. WATKINS EDISON ELECTRIC INS 750 THIRD AVE. EDISON ELECTRIC INSTITUTE STARTED 1966	SUPPORT: INTERNAL	NEW YORK NY NEW YORK NY COST \$860,000	237
238	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	HUNTER COLLEGE - CITY UNIVERSITY OF NEW YORK RADICAL CONTROL IN COMBUSTION PRODUCTS R.H. WILEY HUNTER COLLEGE USPHS STARTED 1966	SUPPORT: GRANT(PHS)	NEW YORK NY NEW YORK NY COST \$ 66,000	238
239	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	KITCHAWAN RESEARCH LABORATORY-BROOKLYN BOTANIC OZONE INJURY TO FOREST TREES C.R. HIBBEN KITCHAWAN RES. LAB USPHS STARTED 1963	SUPPORT: GRANT(PHS)	OSSINGING NY OSSINGING NY COST \$ 7,000	239
240	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	KITCHAWAN RESEARCH LABORATORY-BROOKLYN BOTANIC EFFECT OF AIR POLLUTION ON SOIL AND PLANT MICROBIOTAS G. STOTZKY KITCHAWAN RES. LAB. USPHS STARTED 1964	SUPPORT: GRANT(PHS)	OSSINGING NY OSSINGING NY COST \$ 22,000	240

241	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	MANHATTAN COLLEGE MECHANICS OF MUCUS FLOW AND CILIARY ACTION C.E. MILLER USPHS STARTED 1964	MANHATTAN COLLEGE SUPPORT: GRANT(PHS)	BRONX BRONX COST	NY NY \$ 66,000	241
242	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	NEW YORK UNIVERSITY EFFECTS OF SMOKING AND AIR POLLUTION ON CLEARANCE OF PARTICLES FROM LUNGS R.E. ALBERT AMA-ERF STARTED 1964	NY UNIV. MED. CENTER 550 FIRST AVE. SUPPORT: CONTRACT(PRIV)	NEW YORK NEW YORK COST	NY NY \$ 48,000	242
243	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	NEW YORK UNIVERSITY PULMONARY DEPOSITION AND CLEARANCE OF DUST IN MAN R.E. ALBERT USPHS STARTED 1962	NY UNIV. MED. CENTER 550 FIRST AVE. SUPPORT: GRANT(PHS)	NEW YORK NEW YORK COST	NY NY \$ 45,000	243
244	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	NEW YORK UNIVERSITY MATHEMATICAL MODELS OF URBAN AIR POLLUTION DYNAMICS B. DAVIDSON USPHS STARTED 1964	NEW YORK UNIV. SUPPORT: GRANT(PHS)	NEW YORK NEW YORK COST	NY NY \$232,000	244
245	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	NEW YORK UNIVERSITY A STUDY OF ATMOSPHERIC TURBULENCE OVER A CITY R.J. DELAND USPHS STARTED 1964	NEW YORK UNIV. SUPPORT: GRANT(PHS)	NEW YORK NEW YORK COST	NY NY \$ 26,000	245
246	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	NEW YORK UNIVERSITY TRANSVERSE JET PLUMES J. HALITSKY USAC STARTED 1966	NEW YORK UNIV. SUPPORT: CONTRACT(GOVT)	UNIVERSITY HEIGHTS UNIVERSITY HEIGHTS COST	NY NY \$ 91,000	246
247	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	NEW YORK UNIVERSITY NEW YORK CITY SURVEY FOR CHRONIC RESPIRATORY DISEASE W.T. INGRAM USPHS STARTED 1965	NEW YORK UNIV. SUPPORT: CONTRACT(GOVT)	UNIVERSITY HEIGHTS UNIVERSITY HEIGHTS COST	NY NY \$ 3,000	247
248	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	NEW YORK UNIVERSITY SMOKELESS INCINERATION OF BULKY REFUSE C.P. KAISER USPHS STARTED 1963	NEW YORK UNIV. SUPPORT: GRANT(PHS)	W 177TH ST AND CEDAR UNIVERSITY HEIGHTS COST	NY NY \$ 26,000	248
249	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	PHELPS DODGE REFINING CORPORATION STUDY OF EMISSION PATTERN ON FURNACE FLUE SYSTEMS D. INGVALDSTAD PHELPS DODGE REFINING CORPORATION STARTED 1966	PHELPS DODGE REF. CO. SUPPORT: INTERNAL	42-02 56TH ROAD UNIVERSITY HEIGHTS COST	NY NY \$ 3,000	249
250	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH THE GENESIS PROGRAM - AIR POLLUTION E.L. WYNDER SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH STARTED	SLOAN-KETTERING INS SUPPORT: OTHER	410 EAST 68TH ST. UNIVERSITY HEIGHTS COST	NY NY \$ 8,000	250

251	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	STATE UNIVERSITY OF NEW YORK, RESEARCH FOUNDATION CHRONIC BRONCHITIS - BACTERIOLOGICAL STUDIES T.M.GOCKE STATE UNIV. OF N.Y. USPHS STARTED 1963 SUPPORT: GRANT(PHS)	ALBANY NY ALBANY NY COST \$ 19,000	251
252	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	STATE UNIVERSITY OF NEW YORK, RESEARCH FOUNDATION CHRONIC BRONCHITIS-EPIDEMIOLOGY STUDIES T.M.GOCKE STATE UNIV. OF N.Y. USPHS STARTED 1966 SUPPORT: GRANT(PHS)	ALBANY NY ALBANY NY COST \$ 13,000	252
253	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	STATE UNIVERSITY OF NEW YORK, RESEARCH FOUNDATION PERMEATION RATES OF TRACER GASES THROUGH POLYMERS F.J.NORTON STATE UNIV. OF N.Y. USPHS STARTED 1965 SUPPORT: GRANT(PHS)	ALBANY NY ALBANY NY COST \$ 13,000	253
254	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	STATE UNIVERSITY OF NEW YORK, RESEARCH FOUNDATION TRAVELS OF AIRBORNE POLLEN E.C. OGDEN STATE UNIV. OF N.Y. USPHS STARTED 1965 SUPPORT: GRANT(PHS)	ALBANY NY ALBANY NY COST \$ 46,000	254
255	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	STATE UNIVERSITY OF NEW YORK, DEPT. OF PREVENTIVE MED. STUDIES OF THE EFFECTS OF AIR POLLUTION ON MORBIDITY AND MORTALITY M. WINKELSTEIN STATE UNIV. OF N.Y. 211 MAIN ST. USPHS STARTED 1961 SUPPORT: GRANT(PHS)	BUFFALO NY BUFFALO NY	255
256	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ROCHESTER MECHANISMS + PATHWAYS OF CLEARANCE OF INHALED PARTICULATE MATERIAL L.J.CASARETT UNIV. OF ROCHESTER P.O. BOX 287, STATION USAC STARTED 1957 SUPPORT: GRANT(AEC)	ROCHESTER NY ROCHESTER NY COST \$ 32,000	256
257	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ROCHESTER CYTOLOGICAL STUDIES OF THE INTERACTION OF NOXIOUS AGENTS L.J.CASARETT UNIV OF ROCHESTER 260 CRITTENDEN BLVD. USAC STARTED SUPPORT: CONTRACT(GOVT)	ROCHESTER NY ROCHESTER NY	257
258	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ROCHESTER PHYSIOLOGICAL RESPONSE OF RATS EXPOSED TO URANIUM DIOXIDE W.L.DOWNS UNIV OF ROCHESTER 260 CRITTENDEN BLVD. USAC STARTED SUPPORT: CONTRACT(GOVT)	ROCHESTER NY ROCHESTER NY	258
259	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ROCHESTER THE TOXICOLOGY OF INHALED MATERIALS L.J.LEACH UNIV OF ROCHESTER 260 CRITTENDEN BLVD. USAC STARTED SUPPORT: CONTRACT(GOVT)	ROCHESTER NY ROCHESTER NY	259
260	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ROCHESTER PSYCHO-PHARMACOLOGIC APPROACH TO THE STUDY OF TOXIC AGENTS L.J.LEACH UNIV OF ROCHESTER 260 CRITTENDEN BLVD. USAC STARTED SUPPORT: CONTRACT(GOVT)	ROCHESTER NY ROCHESTER NY	260

261	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ROCHESTER AEROSOL PHYSICS T. MERCER UNIV OF ROCHESTER 260 CRITTENDEN BLVD. ROCHESTER NY 261
262	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ROCHESTER RADIOBIOLOGY OF INHALED RADON AND ITS DECAY PRODUCTS D.A. MORROW UNIV OF ROCHESTER 260 CRITTENDEN BLVD. ROCHESTER NY 262
263	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ROCHESTER DUST DEPOSITION AND RETENTION P.E. MORROW UNIV OF ROCHESTER 260 CRITTENDEN BLVD. ROCHESTER NY 263
264	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ROCHESTER INHALATION STUDIES OF ALPHA EMITTERS P.E. MORROW UNIV OF ROCHESTER 260 CRITTENDEN BLVD ROCHESTER NY 264
265	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ROCHESTER CLEARANCE OF NON-GASEOUS MATERIALS FROM RESPIRATORY TRACT OF ANIMAL P.E. MORROW UNIV OF ROCHESTER 260 CRITTENDEN BLVD ROCHESTER NY 265
266	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF ROCHESTER MORPHOLOGICAL, CYTOLOGICAL, AND THE PATHOLOGICAL STUDIES RELATED TO THE LUNG CALVITILE UNIV OF ROCHESTER 260 CRITTENDEN BLVD ROCHESTER NY 266
267	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	VON BRAND FILTERING RECORDERS SIGNIFICANCE OF EXHAUST PATTERNS OBTAINABLE WITH RECORDING SMOKE METERS E.K. VON BRAND VON BRAND FILT. REC. VON BRAND FILTERING RECORDERS STARTED 1961 SUPPORT: INTERNAL RHINEBECK NY 267
268	NEW YORK TITLE INVESTIGATOR SPONSOR PROJECT DATA	YESHIVA UNIVERSITY - ALBERT EINSTEIN COLLEGE OF MED. STUDY OF EFFECTS OF AIR POLLUTION ON ANIMALS AND HUMANS L. GREENBURG YESHIVA UNIV. 1300 MORRIS PARK AVE. BRONX NY 268
269	NORTH CAROLINA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF NORTH CAROLINA SAFE LIMITS OF AIR POLLUTION FROM PRODUCTS OF FUEL COMBUSTION M.C. BATTIGELLI UNIV. OF N.C. P.O. BOX 360 CHAPEL HILL NC 269
270	NORTH CAROLINA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF NORTH CAROLINA RESPONSE OF MICE TO VARIOUS SYNTHETIC ATMOSPHERES L.V. RIPPERTON UNIV. OF N.C. P.O. BOX 630 CHAPEL HILL NC 270

271	NORTH CAROLINA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF NORTH CAROLINA OZONE PRECURSORS IN RURAL AIR L.A. RIPPERTON UNIV. OF N.C. UNIVERSITY RESEARCH COUNCIL STARTED 1965 SUPPORT: INTERNAL	P.O. BOX 630	CHAPEL HILL NC CHAPEL HILL NC COST \$ 1,000	271
272	NORTH CAROLINA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF NORTH CAROLINA CHEMICAL + ENVIRON. FACTORS AFF. OZONE CONCENTRA. IN THE LOWER TROPOSPHERE L.A. RIPPERTON UNIV. OF NC USAEC STARTED 1965 SUPPORT: GRANT(AEC)	P.O. BOX 630	CHAPEL HILL NC CHAPEL HILL NC COST \$ 48,000	272
273	NORTH CAROLINA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF NORTH CAROLINA THE EFFECTS OF ATMOSPHERIC POLLUTION ON VEGETATION L.A. RIPPERTON UNIV. OF N.C. NORTH CAROLINA BOARD OF SCIENCE + TECHNOLOGY STARTED 1966 SUPPORT: GRANT(OTH), OTHER	P.O. BOX 630	CHAPEL HILL NC CHAPEL HILL NC COST \$ 10,000	273
274	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	AIR POLLUTION CONTROL ASSOCIATION NATIONAL CLEANER AIR WEEK C.N. HOWISON AIR POLL CONT. ASS. AIR POLLUTION CONTROL ASSOCIATION STARTED 1966 SUPPORT: OTHER	2400 READING ROAD	CINCINNATI OHIO CINCINNATI OHIO COST \$ 3,000	274
275	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	BABCOCK AND WILCOX COMPANY VARIOUS PROGRAMS TO CONTROL INDUSTRIAL GASEOUS + PARTICULATE POLLUTION E.A. PIRSH BABCOCK + WILCOX CO BABCOCK AND WILCOX COMPANY STARTED 1955 SUPPORT: INTERNAL	20 SO. VAN BUREN AVE	BARBERTON OHIO BARBERTON OHIO COST \$500,000	275
276	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	BARNEBEY-CHENEY NUMEROUS PROJECTS ON AIR POLLUTION CONTROL J.L. KOVACH BARNEBEY-CHENEY BARNEBEY-CHENEY STARTED 1919 SUPPORT: INTERNAL	CASSADY + 8TH AVE.	COLUMBUS OHIO COLUMBUS OHIO COST \$ 40,000	276
277	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	BATTELLE MEMORIAL INSTITUTE POLLUTANTS FROM VARIOUS PROCESSES AND THEIR ABATEMENT R.B. ENGDAHL BATTELLE MEM. INST. STARTED 1962 SUPPORT: GRANT(OTH), CONTRACT(PRIV)	505 KING AVE.	COLUMBUS OHIO COLUMBUS OHIO COST \$ 75,000	277
278	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	BATTELLE MEMORIAL INSTITUTE KINETICS OF SULFUR-OXIDE FORMATION IN FLAMES A.W. LEVY BATTELLE MEM. INST. USPHS STARTED SUPPORT: GRANT(PHS)	505 KING AVE	COLUMBUS OHIO COLUMBUS OHIO COST \$ 30,000	278
279	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	CITY OF CINCINNATI, BUREAU OF AIR POLLUTION CONTROL PARTICULATE SAMPLING BY ADHESIVE-COATED MATERIALS C.E. SCHUMANN APC BUREAU - CINTI. USPHS STARTED 1955 SUPPORT: GRANT(PHS)	2400 BEEKMAN ST.	CINCINNATI OHIO CINCINNATI OHIO COST \$ 12,000	279
280	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	FULLER COMPANY DIVISION OF GENERAL AMERICAN TRANS. CO MISC. ITEMS ON REMOVAL OF DUST FROM ATMOSPHERE IN INDUSTRIAL APPLICATIONS F.W. MORNER FULLER CO. FULLER COMPANY, DIV. OF GENERAL AMERICAN TRANS. CO. STARTED SUPPORT: CONTRACT(PRIV)	4083 E. 116TH ST.	CLEVELAND OHIO CLEVELAND OHIO	280

281	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	KIRK AND BLUM MANUFACTURING COMPANY RESEARCH & DEVELOPMENT ASSOCIATED WITH AIR POLLUTION CONTROL DEVICES E.A. CARSEY KIRK & BLUM MFG. CO. 3120 FORRER ST. KIRK AND BLUM MANUFACTURING COMPANY STARTED SUPPORT: INTERNAL	CINCINNATI CINCINNATI	OHIO OHIO	281
282	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	OHIO EDISON COMPANY DETERMINATION OF SULFUR DIOXIDE AND DUST IN THE ATMOSPHERE OF TORONTO BATTELLE INST OHIO EDISON CO. 47 N. MAIN ST. OHIO EDISON COMPANY STARTED 1966 SUPPORT: INTERNAL	AKRON OHIO AKRON	OHIO OHIO	282
283	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	OHIO EDISON COMPANY DETERMINATION OF SULFUR DIOXIDE AND DUST IN THE ATMOSPHERE OF STRATTON BATTELLE INST OHIO EDISON CO. 47 N. MAIN ST. OHIO EDISON COMPANY STARTED 1965 SUPPORT: INTERNAL	AKRON OHIO AKRON	OHIO OHIO	283
284	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	OHIO STATE UNIVERSITY MECHANISMS OF PHOTOCHEMICALLY INITIATED OXIDATIONS J.G. CALVERT OHIO STATE UNIV. 88 WEST 18TH AVE. USPHS STARTED 1961 SUPPORT: GRANT(PS)	COLUMBUS COLUMBUS	OHIO OHIO	284
285	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION PHOTOCHEMISTRY AND KINETIC INVESTIGATIONS A.P. ALTSHULLER DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1957 SUPPORT: INTERNAL	CINCINNATI CINCINNATI	OHIO OHIO	285
286	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION MODIFICATION & EVALUATION OF SAMPLING & ANALYTICAL METHODS F.B. RENSON DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1962 SUPPORT: INTERNAL	CINCINNATI CINCINNATI	OHIO OHIO	286
287	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION APPLIED SCRUBBER RESEARCH FOR POLLUTION CONTROL P.J. BIERBAUM DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI	OHIO OHIO	287
288	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION ALKALINE ADDITIVES FOR SULFUR DIOXIDE CONTROL R.W. BORGWARDT DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI	OHIO OHIO	288
289	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION PLANT INDICATORS OF AIR POLLUTION AND AIR POLLUTANTS C.S. BRANDT DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1956 SUPPORT: INTERNAL	CINCINNATI CINCINNATI	OHIO OHIO	289
290	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION INTERRELATIONS BETWEEN THE PHYTOXICITY OF SPECIFIC AIR POLLUTANTS C.S. BRANDT DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1962 SUPPORT: INTERNAL	CINCINNATI CINCINNATI	OHIO OHIO	290

291	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION EFF OF PHYTOXIC AIR POLL ON THE BIOCHEMISTRY + PHYSIOLOGY OF PLANT SYST. C.S. BRANDT DAP - USPHS USPHS STARTED 1962	4676 COLUMBIA PARKWAY CINCINNATI OHIO	291
		SUPPORT: INTERNAL	COST \$ 29,000	
292	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION INHALATION TOXICOLOGY OF COMBINED SOX AND PARTICULATE CONTAMINANTS K.I. CAMPBELL DAP - USPHS USPHS STARTED 1966	4676 COLUMBIA PARKWAY CINCINNATI OHIO	292
		SUPPORT: INTERNAL	COST \$104,000	
293	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION TOXICOLOGICAL STUDIES OF AIR POLLUTION MIXTURES K.I. CAMPBELL DAP - USPHS USPHS STARTED 1959	4676 COLUMBIA PARKWAY CINCINNATI OHIO	293
		SUPPORT: INTERNAL	COST \$151,000	
294	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION ATMOSPHERIC LEAD AND CARBON MONOXIDE IN CINCINNATI - EPIDEMIOLOGY R.E. CARROLL DAP - USPHS USPHS STARTED 1966	4676 COLUMBIA PARKWAY CINCINNATI OHIO	294
		SUPPORT: INTERNAL	COST \$ 15,000	
295	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION SPECIFIC TRACE ELEMENTS IN AIR RELATED TO HEALTH-EXPLORATION OF ASSOC. R.E. CARROLL DAP - USPHS USPHS STARTED 1966	4676 COLUMBIA PARKWAY CINCINNATI OHIO	295
		SUPPORT: INTERNAL	COST \$ 26,000	
296	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION ASTHMA IN NEW ORLEANS - EPIDEMIOLOGY R.E. CARROLL DAP - USPHS USPHS STARTED 1962	4676 COLUMBIA PARKWAY CINCINNATI OHIO	296
		SUPPORT: INTERNAL	COST \$ 15,000	
297	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION LOCAL AIR POLLUTION FORECASTING RESEARCH J.F. CLARK DAP - USPHS USPHS STARTED 1963	4676 COLUMBIA PARKWAY CINCINNATI OHIO	297
		SUPPORT: INTERNAL	COST \$ 70,000	
298	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION STUDY OF INTERACTIONS OF AIR POLLUTANTS O ₃ AND BACTERIAL INFECTION D.L. COFFIN DAP - USPHS USPHS STARTED 1959	4676 COLUMBIA PARKWAY CINCINNATI OHIO	298
		SUPPORT: INTERNAL	COST \$126,000	
299	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION AND EFFECTS ON PROPERTY - DYED FABRIC FADING C.J. CONLEE DAP - USPHS USPHS STARTED 1963	4676 COLUMBIA PARKWAY CINCINNATI OHIO	299
		SUPPORT: INTERNAL	COST \$ 25,000	
300	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION SPECTRAL PROPERTIES OF URBAN ATMOSPHERES W.D. CONNER DAP - USPHS USPHS STARTED 1966	4676 COLUMBIA PARKWAY CINCINNATI OHIO	300
		SUPPORT: INTERNAL	COST \$ 52,000	

301	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION INSTRUMENTAL TECHNIQUES FOR MEASURING PLUME TRANSMITTANCE W.D. CONNER USPHS DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1965 SUPPORT: INTERNAL	CINCINNATI CINCINNATI CINCINNATI CINCINNATI CINCINNATI	OHIO OHIO OHIO OHIO OHIO	301 COST \$ 9,000
302	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION PHYSICAL AND CHEMICAL CHARACTERIZATION AND CONTROL OF ANIMAL EXPOSURE W.L. CRIDER USPHS DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1965 SUPPORT: INTERNAL	CINCINNATI CINCINNATI CINCINNATI CINCINNATI CINCINNATI	OHIO OHIO OHIO OHIO OHIO	302 COST \$130,000
303	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION ASPECTS OF GRAY IRON AND STEEL FOUNDRIES S.T. CUFFE USPHS DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1967 SUPPORT: INTERNAL	CINCINNATI CINCINNATI CINCINNATI CINCINNATI CINCINNATI	OHIO OHIO OHIO OHIO OHIO	303 COST \$ 5,000
304	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION ASPECTS OF IRON AND STEEL MANUFACTURE S.T. CUFFE USPHS DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1967 SUPPORT: INTERNAL	CINCINNATI CINCINNATI CINCINNATI CINCINNATI CINCINNATI	OHIO OHIO OHIO OHIO OHIO	304 COST \$ 6,000
305	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION ASPECTS OF COTTON GINNING S.T. CUFFE USPHS DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1965 SUPPORT: INTERNAL	CINCINNATI CINCINNATI CINCINNATI CINCINNATI CINCINNATI	OHIO OHIO OHIO OHIO OHIO	305 COST \$ 22,000
306	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION GUIDE TO GOOD PRACTICE FOR PATHOLOGICAL INCINERATORS S.T. CUFFE USPHS DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI CINCINNATI CINCINNATI CINCINNATI	OHIO OHIO OHIO OHIO OHIO	306 COST \$ 23,000
307	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION GUIDE TO GOOD PRACTICE FOR LARGE COAL BURNING UNITS > 100MM BTU/HR INPUT S.T. CUFFE USPHS DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI CINCINNATI CINCINNATI CINCINNATI	OHIO OHIO OHIO OHIO OHIO	307 COST \$ 15,000
308	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION GUIDE TO GOOD PRACTICE FOR LARGE OIL BURNING UNITS > 100MM BTU/HR INPUT S.T. CUFFE USPHS DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI CINCINNATI CINCINNATI CINCINNATI	OHIO OHIO OHIO OHIO OHIO	308 COST \$ 15,000
309	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION GUIDE TO GOOD PRACTICE FOR SMALL OIL BURNING UNITS < 100MM BTU/HR INPUT S.T. CUFFE USPHS DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI CINCINNATI CINCINNATI CINCINNATI	OHIO OHIO OHIO OHIO OHIO	309 COST \$ 15,000
310	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION GUIDE TO GOOD PRACTICE FOR FLUE-BED INCINERATORS S.T. CUFFE USPHS DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI CINCINNATI CINCINNATI CINCINNATI	OHIO OHIO OHIO OHIO OHIO	310 COST \$ 25,000

311	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION GUIDE TO GOOD PRACTICE FOR DIRECT-FED MULTIPLE CHAMBER INCINERATORS S.T. CUFFE DAP = USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 50,000	311
312	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION TIME VARIATION OF MAJOR AIR POLLUTANT EMISSIONS S.T. CUFFE DAP = USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 28,000	312
313	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION PUEBLO, COLORADO STUDY - AEROMETRY R.L. CUMMINS DAP = USPHS 4676 COLUMBIA PARKWAY STARTED 1965 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 55,000	313
314	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION ATMOSPHERIC LEAD AND CARBON MONOXIDE IN CINCINNATI - AEROMETRY R.C. DICKERSON DAP = USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 15,000	314
315	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION ASTHMA IN NEW ORLEANS - AEROMETRY R.C. DICKERSON DAP = USPHS 4676 COLUMBIA PARKWAY STARTED 1963 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 10,000	315
316	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION METHODS FOR SAMPLING AND ANALYSIS OF AIR POLLUTION SOURCES J.A. DORSEY DAP = USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 30,000	316
317	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION 1959-1961 UNITED STATES MORTALITY TABULATIONS AND ANALYSIS E.P. DUFFY DAP = USPHS 4676 COLUMBIA PARKWAY STARTED 1965 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 30,000	317
318	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR QUALITY DATA STORAGE AND RETRIEVAL SYSTEM D.W. FAIR DAP = USPHS 4676 COLUMBIA PARKWAY STARTED 1965 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 25,000	318
319	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION DETECTION OF RESPIRATORY DISEASES IN ANIMALS G.A. FAIRCHILD DAP = USPHS 4676 COLUMBIA PARKWAY STARTED 1964 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 20,000	319
320	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION DEPOSITION BEHAVIOR OF AEROSOLS J. FLESCH DAP = USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 10,000	320

321	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION SOURCE EMISSIONS EVALUATION R.W. GERSTLE DAP - USPHS STARTED 1959	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 65,000	321
322	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION ASPECTS OF PHOSPHORIC ACID + RELATED FERTILIZER MANUFACTURE D.R. GOODWIN DAP - USPHS STARTED 1964	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 37,000	322
323	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION ASPECTS OF PHOSPHORIC ACID FURNACE MANUFACTURE D.R. GOODWIN DAP - USPHS STARTED 1965	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 22,000	323
324	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION ASTHMA IN NEW ORLEANS - TEMPORARY RESIDENCE STUDY R.K. HOFMAN DAP - USPHS STARTED 1963	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 10,000	324
325	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION CLIMATOLOGY OF AIR POLLUTION POTENTIAL G.C. HOLZWORTH DAP - USPHS STARTED 1963	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 98,000	325
326	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION COOPERATIVE AIR POLLUTION AND HEALTH STUDY WITH R.J. MORTON DAP - USPHS STARTED 1966	AMERICAN CANCER SOCIETY 4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 5,000	326
327	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION UNITED STATES-JAPAN COOPERATIVE AIR POLLUTION + R.J. MORTON DAP - USPHS STARTED 1965	HEALTH RESEARCH PROGRAM 4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 13,000	327
328	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION RELATIONSHIP BETWEEN AIR POLLUTION AND INDUSTRIAL ABSENTEEISM R.J. MORTON DAP - USPHS STARTED 1966	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 5,000	328
329	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION EFFECTS AND BIOLOGICAL INTERACTIONS OF AUTO EXHAUST, SOX AND NOX ATMOSPHERE F.G. HUETER DAP - USPHS STARTED 1965	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO \$250,000	329
330	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION INTERPRETATION AND PUBLICATION OF AIR QUALITY DATA (STATISTICAL ANALYSIS) L.W. JOHNSON DAP - USPHS STARTED 1964	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 57,000	330

331	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION ASPECTS OF CHLORINE AND CAUSTIC MANUFACTURE J.C. KNUDSON USPHS STARTED 1965	DAP - USPHS 4676 COLUMBIA PARKWAY	CINCINNATI OHIO CINCINNATI OHIO COST \$ 22,000	331
332	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION IRRADIATION CHAMBER STUDIES-EFFECTS OF IRRADIATION ON MIXTURE OF POLLUTANT S.L. KOPCZYNSKI USPHS STARTED 1960	DAP - USPHS 4676 COLUMBIA PARKWAY	CINCINNATI OHIO CINCINNATI OHIO COST \$ 09,000	332
333	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AUTOMOTIVE EMISSIONS STANDARDS M.W. KORTH USPHS STARTED 1965	DAP - USPHS 4676 COLUMBIA PARKWAY	CINCINNATI OHIO CINCINNATI OHIO COST \$ 10,000	333
334	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AUTOMOTIVE EMISSION CONTROL DEVELOPMENT M.W. KORTH USPHS STARTED 1966	DAP - USPHS 4676 COLUMBIA PARKWAY	CINCINNATI OHIO CINCINNATI OHIO COST \$ 98,000	334
335	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION MATHEMATICAL MODELS R.T. LARSEN USPHS STARTED 1966	DAP - USPHS 4676 COLUMBIA PARKWAY	CINCINNATI OHIO CINCINNATI OHIO COST \$ 20,000	335
336	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION LUNG FUNCTION R.T. LARSEN USPHS STARTED 1963	DAP - USPHS 4676 COLUMBIA PARKWAY	CINCINNATI OHIO CINCINNATI OHIO COST \$ 25,000	336
337	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION DEVELOPMENTAL SUPPORT FOR NETWORK INSTRUMENTATION AND METHODOLOGY R.J. LEWIS USPHS STARTED 1965	DAP - USPHS 4676 COLUMBIA PARKWAY	CINCINNATI OHIO CINCINNATI OHIO COST \$ 47,000	337
338	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION CONTINUOUS AIR MONITORING PROGRAM R.J. LEWIS USPHS STARTED 1960	DAP - USPHS 4676 COLUMBIA PARKWAY	CINCINNATI OHIO CINCINNATI OHIO COST \$ 51,000	338
339	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION RESPIRATORY PHYSIOLOGY AS AFFECTED BY INDIVIDUAL AND COMBINED POLLUTANTS T.R. LEWIS USPHS STARTED 1964	DAP - USPHS 4676 COLUMBIA PARKWAY	CINCINNATI OHIO CINCINNATI OHIO COST \$ 66,000	339
340	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION METROPOLITAN WASHINGTON AIR POLLUTION STUDY F.D. MADDOX USPHS STARTED 1965	DAP - USPHS 4676 COLUMBIA PARKWAY	CINCINNATI OHIO CINCINNATI OHIO COST \$ 8,000	340

341	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION CHEMICOPHYSICAL PROPERTIES OF AIRBORNE PARTICULATE-GAS SYSTEMS M. MALANCHUK DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1965 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 60,000	341
342	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AUTOMOTIVE EMISSION CONTROL EVALUATION W.F. MICHAEL DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 87,000	342
343	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AUTOMOTIVE EMISSION EVALUATION W.F. MICHAEL DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1960 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 45,000	343
344	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION ALABAMA AIR POLLUTION AND HEALTH STUDY - AEROMETRY F.L. MEADOWS DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1962 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 60,000	344
345	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION NATIONAL AIR SAMPLING NETWORK - SUPPORTING LABORATORY OPERATIONS G.B. MORGAN DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1953 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 12,000	345
346	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION CHARLESTON-KAWAHA VALLEY AIR POLLUTION STUDY R. MORRISON DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1964 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 17,000	346
347	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION FEASIBILITY AND DEVELOPMENT OF NEW AIR POLLUTION MEASUREMENT TECHNIQUES J.S. NADER DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1963 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 20,000	347
348	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION TESTING NEW MEANS OF MEASURING AIR POLLUTION R. NELIGAN DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 30,000	348
349	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION DEVELOPMENT - EVALUATION OF METHODS FOR THE MEASUREMENT OF SOILING RATE R. NELIGAN DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 16,000	349
350	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION DEMONSTRATION OF EFFECTIVENESS OF TWO SEPARATE ODOOR REGULATION CONCEPTS R. NELIGAN DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 45,000	350

351	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION EPIDEMIOLOGY OF RESPIRATORY DISEASE IN JAPAN V.A. NEWILL DAP - USPHS USPHS STARTED 1965	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO	351	\$ 40,000
352	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION GENERATION AND CHARACTERIZATION OF AEROSOLS A.E. NUGENT DAP - USPHS USPHS STARTED 1964	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO	352	\$ 36,000
353	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION BALTIMORE MD. AIR POLLUTION HEALTH EFFECTS STUDY - AEROMETRY B.F. PARR DAP - USPHS USPHS STARTED 1964	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO	353	\$ 10,000
354	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION FERNANDINA BEACH AND ST. MARYS COMMUNITY AIR POLLUTION STUDY F. PARTEE DAP - USPHS USPHS STARTED 1965	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO	354	\$ 6,000
355	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION TRAJECTORY STUDIES F. POOLER, JR. DAP - USPHS USPHS STARTED 1962	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO	355	\$114,000
356	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION RELATIONSHIP BETWEEN DAILY AEROMETRICS, METEOROLOGY, MORTALITY & MORBIDITY W.B. RIGGAN DAP - USPHS USPHS STARTED 1966	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO	356	\$ 95,000
357	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION ASPECTS OF HYDROCHLORIC ACID MANUFACTURE J.J. SABLESKI DAP - USPHS USPHS STARTED 1965	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO	357	\$ 22,000
358	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION ASPECTS OF PULP AND PAPER MANUFACTURE J.J. SABLESKI DAP - USPHS USPHS STARTED 1965	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO	358	\$ 19,000
359	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION ANALYTICAL METHODOLOGY ON GASES AND VAPORS B.E. SALTZMAN DAP - USPHS USPHS STARTED 1956	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO	359	\$ 90,000
360	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION SEPARATION TECHNIQUES ON GASES AND VAPORS B.E. SALTZMAN DAP - USPHS USPHS STARTED 1956	4676 COLUMBIA PARKWAY	CINCINNATI CINCINNATI COST	OHIO OHIO	360	\$ 40,000

361	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION DEVELOPMENT OF ANALYTICAL METHODS FOR METEOROLOGICAL TRACERS B.E. SALTZMAN DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1963 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 40,000	361
362	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION ANALYTICAL METHODOLOGY ON ORGANIC PARTICULATES E. SAWICKI DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1956 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 74,000	362
363	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION SEPARATION TECHNIQUES ON ORGANIC PARTICULATES E. SAWICKI DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1956 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 54,000	363
364	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION EPIDEMIC ASTHMA RELATED TO AIR POLLUTION C.R. SHARP DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1963 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 12,000	364
365	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION LONG TERM EFF. OF INTENSIVE EXPOSURE TO NO ₂ IN THE 1929 CLEVE. CLINIC FIRE C.R. SHARP DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1964 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 16,000	365
366	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AUTO EXHAUST STUDIES J.E. SIGSBY, JR. DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1962 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$100,000	366
367	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION GAS-PARTICLE INTERACTIONS IN DISPERSED PHASE B.M. SMITH DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 12,000	367
368	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION FILTER APPLICATION RESEARCH P. SPAITE DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1955 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 35,000	368
369	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION DEVELOP AND MONITOR PROTOTYPE STUDIES OF SULFUR DIOXIDE CONTROL P. SPAITE DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 40,000	369
370	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION NEW METHODS FOR CONTROL OF COMBUSTION GASES P. SPAITE DAP - USPHS 4676 COLUMBIA PARKWAY STARTED 1966 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 35,000	370

371	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION ADVANCED VEHICULAR POWER PLANTS R.C. STAHMAN DAP - USPHS 4676 COLUMBIA PARKWAY CINCINNATI OHIO 371 COST \$ 21,000
372	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION ANALYSIS OF PARTICULATES FOR HIGH MOLECULAR WEIGHT ORGANIC SUBSTANCES T.W. STANLEY DAP - USPHS 4676 COLUMBIA PARKWAY CINCINNATI OHIO 372 COST \$ 93,000
373	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION REACTIONS OF SO2 IN PLUMES AND IN THE ATMOSPHERE B.J. STEIGERWALD DAP - USPHS 4676 COLUMBIA PARKWAY CINCINNATI OHIO 373 COST \$ 40,000
374	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION SURFACE PROPERTIES OF SMALL PARTICLES L. STEYTTLER DAP - USPHS 4676 COLUMBIA PARKWAY CINCINNATI OHIO 374 COST \$ 10,000
375	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION NATIONAL AIR SAMPLING NETWORK (SAMPLING OPERATIONS) E.C. TABOR DAP - USPHS 4676 COLUMBIA PARKWAY CINCINNATI OHIO 375 COST \$ 82,000
376	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION SPECIAL FIELD STUDIES E.C. TABOR DAP - USPHS 4676 COLUMBIA PARKWAY CINCINNATI OHIO 376 COST \$ 44,000
377	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION CHAR SORPTION OF FLUE GAS POLLUTANTS W.F. TODD DAP - USPHS 4676 COLUMBIA PARKWAY CINCINNATI OHIO 377 COST \$ 40,000
378	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION CLIMATOLOGY OF AIR POLLUTION L.E. TRUPPI DAP - USPHS 4676 COLUMBIA PARKWAY CINCINNATI OHIO 378 COST \$ 81,000
379	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION URBAN DIFFUSION MODELING D.B. TURNER DAP - USPHS 4676 COLUMBIA PARKWAY CINCINNATI OHIO 379 COST \$ 52,000
380	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION AND EFFECTS ON PROPERTY - CORROSION STUDIES J.B. UPHAM DAP - USPHS 4676 COLUMBIA PARKWAY CINCINNATI OHIO 380 COST \$ 20,000

381	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION AND EFFECTS ON PROPERTY - TEXTILE DETERIORATION J.B. UPHAM DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1963 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 10,000	381
382	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION AIR POLLUTION AND EFFECTS ON PROPERTY - ELASTOMERS J.B. UPHAM DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1966 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 15,000	382
383	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION SPECIFIC TRACE ELEMENTS IN AIR RELATED TO HEALTH - AEROMETRY J.B. UPHAM DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1966 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 15,000	383
384	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION PHYSICAL AND CHEMICAL PROPERTIES OF URBAN ATMOSPHERIC AEROSOLS J. WAGMAN DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1961 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$103,000	384
385	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION COMBUSTION EMISSION REDUCTION J.H. WASSER DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1965 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 75,000	385
386	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION ALTERED NERVOUS SYSTEM ACTIVITY FROM AIR POLLUTION EXPOSURES C. KINTARAS DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1963 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$128,000	386
387	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION INTERPRETATION & PUBLICATION OF AIR QUALITY DATA (INTERPRETATIVE REPORTS) C.E. ZIMMER DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1964 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 37,000	387
388	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	PUBLIC HEALTH SERVICE, DIVISION OF AIR POLLUTION NATIONAL AIR POLLUTION POTENTIAL RESEARCH AND ADVISORY SERVICE J. ZIMMERMAN DAP - USPHS 4676 COLUMBIA PARKWAY USPHS STARTED 1960 SUPPORT: INTERNAL	CINCINNATI OHIO CINCINNATI OHIO COST \$ 60,000	388
389	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CINCINNATI THE FATE OF INHALED PARTICULATE LEAD COMPOUNDS R.A. KENOE UNIV. OF CINT. USPHS STARTED 1962 SUPPORT: GRANT (PHS)	CINCINNATI OHIO CINCINNATI OHIO COST \$ 26,000	389
390	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CINCINNATI THE FATE OF INHALED PARTICULATE LEAD COMPOUNDS E.P. RADFORD, JR. UNIV. OF CINT. USPHS, LEAD IND. ASS. AMER PETROLEUM INST. STARTED SUPPORT: GRANT (PHS), OTHER	CINCINNATI OHIO CINCINNATI OHIO COST \$125,000	390

391	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CINCINNATI EYE IRRITATION FROM IRRADIATED AUTO EXHAUST W.R.ZAVON UNIV. OF CINTI. USPHS STARTED 1961 SUPPORT: CONTRACT(GOVT)	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 14,000	391
392	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF CINCINNATI SUBJECTIVE EFFECT OF AIR POLLUTANTS ON THE HUMAN EYE W.R.ZAVON UNIV. OF CINTI. USPHS STARTED 1961 SUPPORT: CONTRACT(GOVT)	CINCINNATI CINCINNATI COST	OHIO OHIO \$ 16,000	392
393	OHIO TITLE INVESTIGATOR SPONSOR PROJECT DATA	WESTERN RESERVE UNIVERSITY ELEMENTARY REACTIONS IN POLLUTED ATMOSPHERES G.R.MCMILLAN WEST. RESERVE UNIV. USPHS STARTED 1964 SUPPORT: GRANT(PHS)	CLEVELAND CLEVELAND COST	OHIO OHIO \$ 12,000	393
394	OKLAHOMA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF OKLAHOMA AIR RESOURCE PROJECT G.W.REID UNIV. OF OKLA. USPHS STARTED 1963 SUPPORT: GRANT(PHS)	NORMAN NORMAN	OKLA OKLA	394
395	OKLAHOMA TITLE INVESTIGATOR SPONSOR PROJECT DATA	JOHN ZINK COMPANY ABATEMENT OF AIR POLLUTION R.D.REED JOHN ZINK CO. P.O.BOX 7388 JOHN ZINK CO. STARTED SUPPORT: CONTRACT(PRIV)	TULSA TULSA	OKLA OKLA	395
396	OREGON TITLE INVESTIGATOR SPONSOR PROJECT DATA	OREGON STATE UNIVERSITY EFFECTS OF AGRICULTURAL BURNING ON THE AIR ENVIRONMENT R.W.BOUBEL ORE STATE UNIV OREGON STATE UNIVERSITY STARTED 1966 SUPPORT: CONTRACT(PRIV)	CORVALLIS CORVALLIS COST	ORE ORE \$ 9,000	396
397	OREGON TITLE INVESTIGATOR SPONSOR PROJECT DATA	OREGON STATE UNIVERSITY PARTICULATE EMISSIONS FROM WOOD WASTE COMBUSTION R.W.BOUBEL ORE STATE UNIV USPHS STARTED 1965 SUPPORT: GRANT(PHS)	CORVALLIS CORVALLIS COST	ORE ORE \$ 13,000	397
398	OREGON TITLE INVESTIGATOR SPONSOR PROJECT DATA	OREGON STATE UNIVERSITY AGRONOMIC ASPECTS OF FIELD BURNING OF CROP RESIDUE FROM GRASS SEED PROD. D.O.CHILCOTE OREGON STATE UNIV. OREGON STATE UNIV. STARTED 1962 SUPPORT: INTERNAL	CORVALLIS CORVALLIS COST	ORE ORE \$ 10,000	398
399	OREGON TITLE INVESTIGATOR SPONSOR PROJECT DATA	OREGON STATE UNIVERSITY EFFECT OF FLORIDES ON POLLUTION, DEVELOPMENT, AND YIELDS OF TREE FRUITS O.C.COMPTON OREGON STATE UNIV. OREGON STATE UNIV. STARTED 1961 SUPPORT: CON.(PRIV), INT., OTHER	CORVALLIS CORVALLIS COST	ORE ORE \$ 17,000	399
400	OREGON TITLE INVESTIGATOR SPONSOR PROJECT DATA	OREGON STATE UNIVERSITY EFFECT OF FLUORIDES ON POLLINATION, DEVELOPMENT, AND YIELDS OF FRUIT TREES O.C.COMPTON OREGON STATE UNIV OREGON STATE UNIVERSITY STARTED 1961 SUPPORT: INTERNAL	CORVALLIS CORVALLIS COST	ORE ORE \$100,000	400

401	OREGON TITLE INVESTIGATOR SPONSOR PROJECT DATA	OREGON STATE UNIVERSITY DETERMINATION OF DAMAGE FROM 2,4-D SPRAYING IN THE WILTON-FREEWATER AREA V.W.FREED OREGON STATE UNIV. OREGON STATE UNIVERSITY STARTED 1962 SUPPORT: INTERNAL	CORVALLIS ORE CORVALLIS ORE COST \$ 10,000	401
402	OREGON TITLE INVESTIGATOR SPONSOR PROJECT DATA	OREGON STATE UNIVERSITY THE CLIMATOLOGICAL BASIS FOR MANAGEMENT OF OREGON'S AIR RESOURCES W.P.LOWRY OREGON STATE UNIV. OREGON STATE UNIVERSITY STARTED 1965 SUPPORT: INTERNAL	CORVALLIS ORE CORVALLIS OREG COST \$ 8,000	402
403	OREGON TITLE INVESTIGATOR SPONSOR PROJECT DATA	PORTLAND STATE COLLEGE RESEARCH, TRAINING & DEGREE PROGRAMS IN THE FIELD OF AIR POLL. CONTROL R. TERRAGLIO PORTLAND STA. COLL. STARTED SUPPORT:	PORTLAND ORE PORTLAND ORE	403
404	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	AIR POLLUTION CONTROL ASSOCIATION INTERNATIONAL AIR POLLUTION CONGRESS - LONDON E.R.HENDRICKSON A.P. CONTROL ASS. USPHS STARTED 1966 SUPPORT: GRANT(PHS)	PITTSBURGH PENN PITTSBURGH PENN COST \$ 21,000	404
405	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	CARNEGIE INSTITUTE OF TECHNOLOGY ADHESION OF DUST & ELECTRICAL BREAKDOWN REL TO ELECTROSTATIC PRECIPITATOR G.W.PENNEY CARNEGIE INST TECH SCHENLEY PARK USPHS STARTED 1959 SUPPORT: GRANT(PHS), CONTRACT(GOVT)	PITTSBURGH PENN PITTSBURGH PENN COST \$ 30,000	405
406	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	CHILDRENS HEART HOSPITAL EPIDEMIOLOGY OF BRONCHIAL ASTHMA IN CHILDREN IN PHILADELPHIA L.S.GIRSH CHILDRENS HEART HOS CHILDRENS HEART HOSPITAL STARTED 1963 SUPPORT: OTHER	PHILADELPHIA PENN PHILADELPHIA PENN	406
407	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	KALMAN J. DEJUHASZ SPRAYS AND AEROSOLS K.J.DEJUHASZ USPHS STARTED 1962 SUPPORT: GRANT(PHS)	STATE COLLEGE PENN STATE COLLEGE PENN COST \$ 24,000	407
408	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	DREXEL INSTITUTE OF TECHNOLOGY VERTICAL DISTRIBUTION OF AIR POLLUTANTS H. NEWSTEIN DREX.INST.OF TECH. USPHS STARTED 1965 SUPPORT: GRANT(PHS)	PHILADELPHIA PENN PHILADELPHIA PENN COST \$ 91,000	408
409	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	WEDENBURG & VENABLE, CONSULTANTS DUST FALL IN NORTH BOROUGHNS AND NEVILLE ISLAND, PENN. E. VENABLE WEDENBURG & VENABLE 6111 FIFTH AVE. SHENAGO CORP. STARTED 1959 SUPPORT: CONTRACT(PRIV)	PITTSBURGH PENN PITTSBURGH PENN	409
410	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	WEDENBURG & VENABLE, CONSULTANTS TRAILER-TRUCK AIR POLLUTION ON PENNSYLVANIA TURNPIKE E. VENABLE WEDENBURG & VENABLE 6111 FIFTH AVE. WEDENBURG & VENABLE, CONSULTANTS STARTED 1959 SUPPORT: INTERNAL	PITTSBURGH PENN PITTSBURGH PENN	410

411	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	HEDENBURG + VENABLE, CONSULTANTS METEOROLOGICAL STUDY OF ODOR DISPERSION IN OHIO RIVER VALLEY E. VENABLE NEVILLE CO. STARTED 1965	HEDENBURG + VENABLE 6111 FIFTH AVE. SUPPORT: CONTRACT (PRIV)	PITTSBURGH PENN PITTSBURGH PENN	411
412	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	HEDENBURG + VENABLE, CONSULTANTS METEOROLOGICAL STUDY OF METAL FUME DISPERSION, PINE CREEK VALLEY, PA. E. VENABLE CITIZENS COMMITTEE STARTED 1966	HEDENBURG + VENABLE 6111 FIFTH AVE. SUPPORT: CONTRACT (PRIV), OTHER	PITTSBURGH PENN PITTSBURGH PENN	412
413	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	KAWECKI CHEMICAL COMPANY REMOVAL OF AMMONIA FROM CALCINING EXHAUST GASES A.L. PALA KAWECKI CHEMICAL COMPANY STARTED 1966	P.O. BOX 60 SUPPORT: INTERNAL	BOVERTOWN PENN BOVERTOWN PENN COST \$ 50,000	413
414	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	MELLON INSTITUTE PULMONARY EFFECTS OF INHALATION OF PARTICULATES AND GASES USING ANIMALS P. GROSS MELLON INSTITUTE INDUSTRIAL HYGIENE FOUNDATION, INC. STARTED 1966	4600 FIFTH AVE SUPPORT: OTHER	PITTSBURGH PENN PITTSBURGH PENN COST \$ 60,000	414
415	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA DEPARTMENT OF HEALTH AIR POLLUTION FORECASTING TECHNIQUES FOR PENNSYLVANIA V.H. SUSSMAN USPHS STARTED 1963	PENN. DEPT. OF HEA. SUPPORT: GRANT (PHS)	HARRISBURG PENN HARRISBURG PENN COST \$ 16,000	415
416	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY BASIC STUDY OF AIR POLLUTION CONTROL NET-SCRUBBERS S. CALVERT USPHS STARTED 1963	PENN STATE UNIV 301 ENGINEERING UNIT SUPPORT: GRANT (PHS)	UNIVERSITY PK PENN UNIVERSITY PK PENN COST \$ 36,000	416
417	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY EFFECTS OF VARIOUS ENVIRONMENTS ON PLANTS AND PLANT PROCESSES D.B. DRUMMOND PENNSYLVANIA STATE UNIVERSITY STARTED 1966	PENN STATE UNIV 301 ENGINEERING UNIT SUPPORT: INTERNAL	UNIVERSITY PK PENN UNIVERSITY PK PENN	417
418	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY INCINERATOR PROCESSES AND EMISSIONS R.H. ESSENHUGH USPHS STARTED 1965	PENN STATE UNIV SUPPORT: GRANT (PHS)	UNIVERSITY PK PENN UNIVERSITY PK PENN COST \$ 60,000	418
419	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY STRUCTURES OF SOME OXIDES OF NITROGEN I.C. HISATSUNE USPHS STARTED 1960	PENN STATE UNIV 6 WHITMORE LAB. SUPPORT: GRANT (PHS)	UNIVERSITY PK PENN UNIVERSITY PK PENN COST \$ 9,000	419
420	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY ELIMINATION OF AIR POLLUTION FROM BURNING REFUSE PILE J.K. KINDIG USPHS STARTED 1962	PENN STATE UNIV SUPPORT: GRANT (PHS)	UNIVERSITY PK PENN UNIVERSITY PK PENN COST \$ 82,000	420

421	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY PHYSIOLOGIC RESPONSE OF PLANTS TO EXPOSURE TO VARIOUS AIR POLLUTANTS N. LACASSE PENN STATE UNIV 301 ENGINEERING UNIT USPHS AND PENNSYLVANIA STATE UNIVERSITY STARTED 1966 SUPPORT: CONTRACT(GOVT), INTERNAL	UNIVERSITY PK PENN UNIVERSITY PK PENN	421
422	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY EFFECT OF AREA ON AIR POLLUTION CONTROL PROGRAMS E.C. LEDUC PENN STATE UNIV 301 ENGINEERING UNIT USPHS STARTED 1966 SUPPORT: GRANT(PHS)	UNIVERSITY PK PENN UNIVERSITY PK PENN COST \$ 27,000	422
423	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY DEVELOPMENT OF AIR POLLUTION SAMPLING AND CONTROL INSTRUMENTS D.A. LUNDGREN PENN STATE UNIV 301 ENGINEERING UNIT PENNSYLVANIA STATE UNIVERSITY STARTED 1965 SUPPORT: INTERNAL	UNIVERSITY PK PENN UNIVERSITY PK PENN	423
424	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY INSTRUMENTATION FOR RAPID SAMPLING OF LARGE AIR MASSES R. MCPADDEN PENN STATE UNIV 301 ENGINEERING UNIT USPHS AND PENNSYLVANIA STATE UNIVERSITY STARTED 1966 SUPPORT: CONTRACT(GOVT), INTERNAL	UNIVERSITY PK PENN UNIVERSITY PK PENN	424
425	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY EXHAUST EMISSIONS OF A STRATIFIED-CHARGE ENGINE AND ITS PERFORMANCE W.F. MEYER PENN STATE UNIV ATAC, PHS STARTED 1961 SUPPORT: CONTRACT(GOVT)	UNIVERSITY PK PENN UNIVERSITY PK PENN COST \$ 9,000	425
426	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY METEOROLOGICAL ANALYSIS PENNSYLVANIA AIR QUALITY DATA H. PANOFKY PENN STATE UNIV USPHS STARTED 1960 SUPPORT: GRANT(PHS)	UNIVERSITY PK PENN UNIVERSITY PK PENN COST \$ 12,000	426
427	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY CHEMICAL ANALYSIS TECHNIQUES FOR AIR POLLUTANTS Y.P. RAMACHANDRAN PENN STATE UNIV 301 ENGINEERING UNIT STATE UNIVERSITY OF PENNSYLVANIA STARTED 1966 SUPPORT: INTERNAL	UNIVERSITY PK PENN UNIVERSITY PK PENN	427
428	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY PHYSIOLOGIC RESPONSE IN ANIMALS TO VARYING EXPOSURES TO AIR POLLUTANTS R.A. RHOADES PENN STATE UNIV 301 ENGINEERING UNIT PENNSYLVANIA STATE UNIVERSITY STARTED 1966 SUPPORT: INTERNAL	UNIVERSITY PK PENN UNIVERSITY PK PENN	428
429	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY INTERACTION OF SULFUR DIOXIDE WITH CARBON SURFACES D.L. WALKER PENN STATE UNIV USPHS STARTED 1965 SUPPORT: GRANT(PHS)	UNIVERSITY PK PENN UNIVERSITY PK PENN COST \$ 18,000	429
430	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PENNSYLVANIA STATE UNIVERSITY EFFECTS OF PHOTOCHEMICAL AIR POLLUTANTS ON TREES F.A. WOOD PENN STATE UNIV 301 ENGINEERING UNIT USPHS STARTED 1966 SUPPORT: GRANT(PHS)	UNIVERSITY PK PENN UNIVERSITY PK PENN	430

431	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PHILADELPHIA ELECTRIC COMPANY USE OF GROUND DOLOMITE IN CONTROLLING EMISSIONS FROM OIL FIRED FURNACES G. KOTNICK PHIL. ELECTRIC CO. 1000 CHESTNUT ST. PHILADELPHIA ELECTRIC CO. STARTED 1966 SUPPORT: CONTRACT (PRIV)	PHILADELPHIA PENN PHILADELPHIA PENN COST \$ 10,000	431
432	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	PHILADELPHIA ELECTRIC CO. DEVELOPMENT OF A CONTINUOUS MONITORING SYSTEM TO MEASURE STACK GASES G. KOTNICK PHIL. ELECTRIC CO. 1000 CHESTNUT ST PHILADELPHIA ELECTRIC CO. STARTED 1966 SUPPORT: CONTRACT (PRIV)	PHILADELPHIA PENN PHILADELPHIA PENN	432
433	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	SCOTT RESEARCH LABORATORIES, INCORPORATED DIESEL EXHAUST, COMPOSITION, ODOR AND EYE IRRITATION L.R. RECKNER SCOTT RES LABS, INC P.O. BOX 66 LSPHS AND COORDINATING RESEARCH COUNCIL STARTED 1959 SUPPORT: CON (GOVT), CON (PRIV)	PERKASIE PENN PERKASIE PENN COST \$ 89,000	433
434	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	SUN OIL COMPANY PROPRIETARY STUDIES ASSOCIATED WITH THE USE OF COMPANY PRODUCTS W.F. ELKIN SUN OIL CO. 1608 WALNUT ST. THE SUN OIL CO. STARTED SUPPORT: INTERNAL	PHILADELPHIA PENN PHILADELPHIA PENN	434
435	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	THERMAL RESEARCH AND ENGINEERING CORPORATION AIR POLLUTION POTENTIAL OF DUPONT TYPE OPEN PIT INCINERATOR J.S. SANTOLERI THERMAL RES. & ENGR. BROOK RD. THERMAL RESEARCH & ENGINEERING CORPORATION STARTED 1966 SUPPORT: INTERNAL	CONSHOHOCKEN PENN CONSHOHOCKEN PENN COST \$ 5,000	435
436	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF PITTSBURGH DIESEL EXHAUST STUDY W. NATTIGELLI UNIV OF PITTSBURGH 130 DESOTO ST. LSPHS STARTED 1961 SUPPORT: GRANT (PHS)	PITTSBURGH PENN PITTSBURGH PENN COST \$ 40,000	436
437	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF PITTSBURGH THE EFFECT OF SO2 AND SO2 WITH AEROSOLS ON HUMANS AND ANIMALS G. BURTON UNIV OF PITTSBURGH LSPHS STARTED 1966 SUPPORT: CONTRACT (GOVT)	PITTSBURGH PENN PITTSBURGH PENN COST \$ 34,000	437
438	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF PITTSBURGH SHAPE OF ATMOSPHERIC PARTICLES W. CORN UNIV OF PITTSBURGH 130 DESOTO STREET LSPHS STARTED 1965 SUPPORT: GRANT (PHS)	PITTSBURGH PENN PITTSBURGH PENN COST \$ 32,000	438
439	PENNSYLVANIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF PITTSBURGH PATHOPHYSIOLOGIC RESPONSES OF HUMANS TO AIR POLLUTANT MIXTURES W. CORN UNIV OF PITTSBURGH 130 DESOTO STREET LSPHS STARTED 1966 SUPPORT: CONTRACT (GOVT)	PITTSBURGH PENN PITTSBURGH PENN COST \$ 36,000	439
440	RHODE ISLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF RHODE ISLAND GAS PHASE REACTIONS OF AMINES WITH SULFUR DIOXIDE S.S. BLECHARCZYK UNIV. OF R.I. LSPHS STARTED 1966 SUPPORT: GRANT (PHS)	KINGSTON RI KINGSTON RI COST \$ 24,000	440

441	SOUTH CAROLINA TITLE INVESTIGATOR SPONSOR PROJECT DATA	CLEMSON UNIVERSITY TEMPERATURE MECHANISM IN ATMOSPHERIC OXIDANT PROCESS F.C. ALLEY USPHS STARTED 1962	CLEMSON SC CLEMSON SC COST \$ 14,000	441
442	TENNESSEE TITLE INVESTIGATOR SPONSOR PROJECT DATA	OAK RIDGE NATIONAL LABORATORY EVALUATION OF AIR CLEANING SYSTEMS UNDER REACTOR ACCIDENT CONDITIONS R.E. ADAMS USAE STARTED 1964	OAK RIDGE TENN OAK RIDGE TENN COST \$140,000	442
443	TENNESSEE TITLE INVESTIGATOR SPONSOR PROJECT DATA	OAK RIDGE NATIONAL LABORATORY HIGH-EFFICIENCY AIR FILTER ENGINEERING MANUAL C.A. MURCHESON USAE STARTED 1966	OAK RIDGE TENN OAK RIDGE TENN COST \$ 38,000	443
444	TENNESSEE TITLE INVESTIGATOR SPONSOR PROJECT DATA	OAK RIDGE NATIONAL LABORATORY RARE GAS REMOVAL WITH PERMEABLE MEMBRANES J.W. HOLMES USAE STARTED 1966	OAK RIDGE TENN OAK RIDGE TENN COST \$ 15,000	444
445	TENNESSEE TITLE INVESTIGATOR SPONSOR PROJECT DATA	TENNESSEE VALLEY AUTHORITY FULL-SCALE FIELD STUDY OF INVERSION BREAKUP AT LARGE POWER PLANTS F.E. GARTRELL USPHS STARTED 1966	CHATTANOOGA TENN CHATTANOOGA TENN COST \$ 18,000	445
446	TENNESSEE TITLE INVESTIGATOR SPONSOR PROJECT DATA	TENNESSEE VALLEY AUTHORITY FULL-SCALE FIELD STUDY OF PLUME RISE AT LARGE ELECTRIC GENERATING STATIONS F.E. GARTRELL USPHS STARTED 1963	CHATTANOOGA TENN CHATTANOOGA TENN COST \$ 13,000	446
447	TENNESSEE TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF TENNESSEE EFFECTS OF FLUORINE LEVELS ON PASTURE GRASS & PERFORMANCE OF BEEF CATTLE C.S. MORRIS STATE OF TEXAS STARTED 1954	KNOXVILLE TENN KNOXVILLE TENN COST \$ 19,000	447
448	TENNESSEE TITLE INVESTIGATOR SPONSOR PROJECT DATA	VANDERBILT UNIVERSITY ACID HALTIDE & AMMONIA ADSORPTION BY INNER COMPLEX SALTS G.T. FISHER USPHS STARTED 1964	NASHVILLE TENN NASHVILLE TENN COST \$ 19,000	448
449	TENNESSEE TITLE INVESTIGATOR SPONSOR PROJECT DATA	VANDERBILT UNIVERSITY AIR POLLUTION AND COMMUNITY HEALTH - NASHVILLE - A PROTOTYPE STUDY R.W. GUINN VANDERBILT UNIV. STARTED 1958	NASHVILLE TENN NASHVILLE TENN COST \$ 22,000	449
450	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	NORTH TEXAS STATE UNIVERSITY VIABLE SPECIES OF ALGAE AND PROTOZOA IN THE ATMOSPHERE H.E. SCHLICHTING USPHS STARTED 1959	DENTON TEX DENTON TEX COST \$ 6,000	450

451	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	PETRO-TEX CHEMICAL CORPORATION NOXIOUS FUME ELIMINATION IN THE MANUF. OF MALEIC ANHYDRIDE-BUTENE PROCESS R.D. KERR PETRO-TEX CHEM. CORP. 8600 PARK PLACE BLVD. PETRO-TEX CHEMICAL CORPORATION HOUSTON STARTED 1964 SUPPORT: INTERNAL	HOUSTON HOUSTON	TEX TEX	451
452	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	SOUTHWEST RESEARCH INSTITUTE MEASUREMENTS OF INDUSTRIAL AND TRUCK AND BUS EMISSIONS W.C. MCKEE S.W. RESEARCH INST. 8500 CULEBRA ROAD USPHS AND SOUTHWEST RESEARCH INSTITUTE STARTED 1964 SUPPORT: (CONGOVT); (CONPRIV)	SAN ANTONIO SAN ANTONIO	TEX TEX	452
453	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	SOUTHWEST RESEARCH INSTITUTE DIESEL EMISSION CONTROL - PHASE II K.J. SPRINGER S.W. RES. INSTITUTE USPHS STARTED 1966 SUPPORT: CONTRACT (GOVT)	SAN ANTONIO SAN ANTONIO	TEX TEX	453
454	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	STAUFFER CHEMICAL COMPANY INVESTIGATIONS OF SO2 + ACID MIST LEVELS IN VARIOUS PHASES OF PLANT OPER. E.G. LANG STAUFFER CHEM. CO. 8615 MANCHESTER STAUFFER CHEMICAL COMPANY STARTED 1966 SUPPORT: INTERNAL	HOUSTON HOUSTON	TEX TEX	454
455	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	TEXAS AGRICULTURAL EXPERIMENT STATION CYTOGENETIC EFFECTS OF FLUORIDE W.G. APPLGATE TEX. AGR. EXP. STA. USPHS STARTED 1966 SUPPORT: GRANT (PHS)	COLL STATION COLL STATION	TEX TEX	455
456	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	TEXAS ELECTRIC SERVICE COMPANY ANALYSIS OF PLUE GAS FROM STEAM GENERATOR H.R. NEWTH TEX. ELEC. SER. CO. P.O. BOX 970 TEXAS ELECTRIC SERVICE COMPANY STARTED 1966 SUPPORT: INTERNAL	FORT WORTH FORT WORTH	TEX T X	456
457	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF HOUSTON IONIZATION METHODS OF GAS ANALYSIS IN AIR J.E. LOVELOCK UNIV. OF HOUSTON USPHS STARTED 1963 SUPPORT: GRANT (PHS)	HOUSTON HOUSTON	TEX TEX	457
458	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF TEXAS DYNAMICAL THEORIES OF KNOWN AEROSOLS J.R. BROCK UNIVERSITY OF TEXAS USPHS STARTED 1966 SUPPORT: GRANT (PHS)	AUSTIN AUSTIN	TEX TEX	458
459	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF TEXAS BIOCHEMICAL EFFECTS OF SIMULATED AIR POLLUTANTS F.L. ESTES UNIVERSITY OF TEXAS USPHS STARTED 1966 SUPPORT: GRANT (PHS)	GALVESTON GALVESTON	TEX TEX	459
460	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF TEXAS COMBUSTION PRODUCTS OF ORGANOPHOSPHOROUS PESTICIDES J.C. LEDBETTER UNIVERSITY OF TEXAS 305 ENGG LABS UNIVERSITY OF TEXAS STARTED 1963 SUPPORT: INTERNAL	AUSTIN AUSTIN	TEX TEX	460

461	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF TEXAS DRUGS AND THE AERIAL INFECTIVITY OF TUBERCULOSIS C.A. LEMAISTRE UNIVERSITY OF TEXAS USPHS STARTED 1963	SUPPORT: GRANT(PHS)	DALLAS DALLAS COST	TEX TEX \$ 31,000	461
462	TEXAS TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF TEXAS ATMOSPHERIC CARCINOGENS IN A DENSE PETROCHEMICAL AREA J. NEAL UNIVERSITY OF TEXAS USPHS STARTED 1963	SUPPORT: GRANT(PHS)	GALVESTON GALVESTON COST	TEX TEX \$ 17,000	462
463	UTAH TITLE INVESTIGATOR SPONSOR PROJECT DATA	KENNECOTT COPPER CORP., UTAH COPPER DIVISION THE EFFECT OF SO ₂ AND OTHER AIR CONTAMINANTS ON VEGETATION R.J. HEANEY KENNECOTT COPPER CO P.O. BOX 11299 KenneCott Copper Corp., UTAH COPPER DIVISION STARTED 1963	SUPPORT: INTERNAL	SALT LAKE CTY UTAH SALT LAKE CTY UTAH COST		463
464	UTAH TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF UTAH EFFECTS OF AIR POLLUTION ON PLANT GROWTH C.A. HILL UNIV OF UTAH USPHS STARTED 1963	SUPPORT: GRANT(PHS)	SALT LAKE CTY UTAH SALT LAKE CTY UTAH COST		464
465	UTAH TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF UTAH THE EFFECT OF OZONE ON PLANT METABOLISM T. MCNUITY UNIV OF UTAH USPHS STARTED 1966	SUPPORT: GRANT(PHS)	SALT LAKE CTY UTAH SALT LAKE CTY UTAH COST		465
466	UTAH TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF UTAH EFFECTS OF AIR POLLUTANTS ON PATHOGENICITY M. TRESHOW UNIV OF UTAH USPHS STARTED 1962	SUPPORT: GRANT(PHS)	SALT LAKE CTY UTAH SALT LAKE CTY UTAH COST		466
467	UTAH TITLE INVESTIGATOR SPONSOR PROJECT DATA	UTAH STATE UNIVERSITY BIOLOGICAL EFFECTS OF POLYNUCLEAR AROMATIC HYDROCARBONS ON ANIMALS D.A. GREENWOOD UTAH STATE UNIV STATE OF UTAH STARTED 1964	SUPPORT: GRANT(OTH), OTHER	LOGAN LOGAN COST	UTAH UTAH \$ 25,000	467
468	UTAH TITLE INVESTIGATOR SPONSOR PROJECT DATA	UTAH STATE UNIVERSITY HYDROGEN-FLUORIDE AIR POLLUTION AND INTERMEDIARY METABOLISM G.W. MILLER UTAH STATE UNIV USPHS STARTED 1963	SUPPORT: GRANT(PHS)	LOGAN LOGAN COST	UTAH UTAH \$ 35,000	468
469	UTAH TITLE INVESTIGATOR SPONSOR PROJECT DATA	UTAH STATE UNIVERSITY FLUOROSIS IN PLANTS AND ANIMALS M.L. MINER UTAH STATE UNIV UTAH STATE UNIVERSITY STARTED 1961	SUPPORT: CONTRACT(PRIV)	LOGAN LOGAN COST	UTAH UTAH \$ 2,000	469
470	VIRGINIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	GEORGE WASHINGTON UNIVERSITY, AIRLIE CENTER AUDIOVISUAL METHODS FOR AIR POLLUTION INFORMATION M. HEAD GEO. WASH. UNIV. USPHS STARTED 1963	SUPPORT: GRANT(PHS)	WARRENTON WARRENTON COST	VA VA \$104,000	470

471	VIRGINIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	RESOURCES RESEARCH, INC. ATMOSPHERIC AND STACK SAMPLING FOR FLORIDES D. BARNES RESOURCES RESEARCH, INC. STARTED 1965	RESOURCES RESEARCH P.O. BOX 90	FALLS CHURCH VA FALLS CHURCH VA	471
472	VIRGINIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	RESOURCES RESEARCH, INC. EFFECTS OF LOW LEVEL CONCENTRATIONS OF SO2 AND FLY ASH L.C. MCCABE RESOURCES RESEARCH, INC. STARTED 1965	RESOURCES RESEARCH P.O. BOX 90	FALLS CHURCH VA FALLS CHURCH VA	472
473	VIRGINIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	RESOURCES RESEARCH, INC. SURVEY OF ATMOSPHERIC EMISSIONS L.C. MCCABE RESOURCES RESEARCH, INC. STARTED 1964	RESOURCES RESEARCH P.O. BOX 90	FALLS CHURCH VA FALLS CHURCH VA COST \$ 10,000	473
474	VIRGINIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	VIRGINIA STATE COLLEGE FUNDAMENTALS OF THE OPTICAL MEASUREMENT OF AEROSOLS J.R. HOUKINSON USPHS STARTED 1965	VIRGINIA ST. COLLEGE SUPPORT: GRANT (PHS)	PETERSBURG VA PETERSBURG VA COST \$ 98,000	474
475	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	BATTELLE-NORTHWEST LABORATORY EFFECTS OF SIZE & PROPERTIES OF INHALED RADIOACTIVE PARTICLES W.J. BAIR USAEC STARTED 1952	BATTELLE-NORTHWEST P.O. BOX 999 SUPPORT: CONTRACT (GOVT)	RICHLAND WASH RICHLAND WASH COST \$ 330,000	475
476	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	BATTELLE-NORTHWEST LABORATORY AIR POLLUTION SURVEY J.J. FUQUAY USAEC STARTED 1966	BATTELLE-NORTHWEST P.O. BOX 999 SUPPORT: CONTRACT (GOVT)	RICHLAND WASH RICHLAND WASH COST \$ 30,000	476
477	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	BATTELLE-NORTHWEST LABORATORY DEVELOPMENT OF ANALYTICAL MODEL TO PREDICT TRAVEL OF R/A GASES IN THE GRND L. KING USAEC STARTED 1964	BATTELLE-NORTHWEST P.O. BOX 999 SUPPORT: GRANT (AEC)	RICHLAND WASH RICHLAND WASH COST \$ 40,000	477
478	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	BATTELLE-NORTHWEST LABORATORY EFF. OF RADIOIODINE IN SHEEP & SWINE & OF RADIOSTRONTIUM IN MINIT. SWINE J.L. PALOTAY USAEC STARTED 1949	BATTELLE-NORTHWEST P.O. BOX 999 SUPPORT: CONTRACT (GOVT)	RICHLAND WASH RICHLAND WASH COST \$ 430,000	478
479	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	BATTELLE-NORTHWEST LABORATORY REMOVAL OF ORGANIC IODIDES FROM REACTOR CONTAINMENT ATMOSPHERES L.C. SCHWENDIMAN USAEC STARTED 1965	BATTELLE-NORTHWEST P.O. BOX 999 SUPPORT: GRANT (AEC)	RICHLAND WASH RICHLAND WASH COST \$ 33,000	479
480	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	BATTELLE-NORTHWEST LABORATORY ATMOSPHERIC RADIOACTIVITY & FALLOUT, RADIOISOTOPES AS PARTICLES & VOLATILES L.C. SCHWENDIMAN USAEC STARTED 1947	BATTELLE-NORTHWEST P.O. BOX 999 SUPPORT: CONTRACT (GOVT)	RICHLAND WASH RICHLAND WASH COST \$ 75,000	480

481	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	BATTELLE-NORTHWEST LABORATORY ATMOSPHERIC RADIOACTIVITY AND FALLOUT C.L. SIMPSON BATTELLE-NORTHWEST P.O. BOX 999 LSAEC STARTED 1950 SUPPORT: CONTRACT (GOVT)	RICHLAND RICHLAND COST	WASH WASH \$500,000	481
482	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	BATTELLE-NORTHWEST LABORATORY SPACE NUCLEAR SYSTEMS STUDIES R.C. THOMPSON BATTELLE-NORTHWEST P.O. BOX 999 LSAEC STARTED SUPPORT: CONTRACT (GOVT)	RICHLAND RICHLAND COST	WASH WASH \$139,000	482
483	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF WASHINGTON AIR POLLUTION AND FAMILY ILLNESS J. MCCARROLL UNIV. OF WASH. USPHS + HEALTH RESEARCH COUNCIL, CITY OF NY STARTED 1961 SUPPORT: GRANT (CDM), OTHER	SEATTLE SEATTLE COST	WASH WASH \$290,000	483
484	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF WASHINGTON INFLUENCE OF AEROSOL CHARACTERISTICS ON VISIBILITY A.T. ROSSANO UNIV. OF WASH. USPHS STARTED 1963 SUPPORT: GRANT (PHS)	SEATTLE SEATTLE COST	WASH WASH \$ 25,000	484
485	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF WASHINGTON FACTORS INFLUENCING THE FORMATION OF KRAFT MILL ODOR K.V. SARKANEN UNIV. OF WASH. USPHS STARTED 1964 SUPPORT: GRANT (PHS)	SEATTLE SEATTLE COST	WASH WASH \$ 20,000	485
486	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	WASHINGTON STATE UNIVERSITY GAS CHROMATOGRAPHY OF PULP MILL ODORS D.F. ADAMS WASH STATE UNIV USPHS STARTED 1963 SUPPORT: GRANT (PHS), CONTRACT (PRIV)	PULLMAN PULLMAN COST	WASH WASH \$ 6,000	486
487	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	WASHINGTON STATE UNIVERSITY KRAFT ODOR DETECTION AND OBJECTIONABILITY THRESHOLDS D.F. ADAMS WASH STATE UNIV USPHS STARTED 1963 SUPPORT: GRANT (PHS)	PULLMAN PULLMAN COST	WASH WASH \$ 18,000	487
488	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	WASHINGTON STATE UNIVERSITY AIR RESOURCES STUDIES D.F. ADAMS WASH STATE UNIV WASHINGTON STATE UNIVERSITY STARTED 1965 SUPPORT: CONTRACT (PRIV)	PULLMAN PULLMAN COST	WASH WASH \$ 27,000	488
489	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	WASHINGTON STATE UNIVERSITY PULP MILL RESEARCH R.K. KOPPE WASH STATE UNIV WASHINGTON STATE UNIVERSITY STARTED 1965 SUPPORT: CONTRACT (PRIV)	PULLMAN PULLMAN COST	WASH WASH \$ 5,000	489
490	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	WASHINGTON STATE UNIVERSITY RESPONSE OF PLANT FRUITING TO HYDROGEN FLUORIDE FUMIGATION M.R. PACK WASH STATE UNIV USPHS STARTED 1964 SUPPORT: GRANT (PHS)	PULLMAN PULLMAN COST	WASH WASH \$ 27,000	490

491	WASHINGTON TITLE INVESTIGATOR SPONSOR PROJECT DATA	WASHINGTON STATE UNIVERSITY MODE OF FLUORIDE UPTAKE BY PLANTS C.W. SULZBACH WASHINGTON STATE UNIVERSITY STARTED 1963	PULLMAN PULLMAN COST	WASH WASH \$ 4,000	491
492	WEST VIRGINIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	WEST VIRGINIA UNIVERSITY AIR POLLUTION AND THE COMMUNITY IMAGE R.E. RANKIN USPHS STARTED 1965	MORGANTOWN MORGANTOWN COST	WVA WVA \$ 37,000	492
493	WEST VIRGINIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	WEST VIRGINIA UNIVERSITY RELATIONSHIP OF AIR POLLUTION + NASAL + EYE IRRITATION IN CHARLESTON, WVA B. STOUT USPHS STARTED 1966	MORGANTOWN MORGANTOWN COST	WVA WVA \$ 5,000	493
494	WISCONSIN TITLE INVESTIGATOR SPONSOR PROJECT DATA	RIPON COLLEGE REACTIONS OF ATOMIC OXYGEN J.W. POWERS USPHS STARTED 1966	RIPON RIPON COST	WIS WIS \$ 9,000	494
495	WISCONSIN TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF WISCONSIN THE ECONOMICS OF AIR POLLUTION CONTROL T.D. CROCKER USPHS STARTED 1965	MADISON MADISON COST	WIS WIS \$ 23,000	495
496	WISCONSIN TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF WISCONSIN COALESCENCE OF DROPS IN A GASEOUS MEDIUM F.J. CROSBY USPHS STARTED 1965	MADISON MADISON COST	WIS WIS \$ 25,000	496
497	WISCONSIN TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF WISCONSIN MINIMIZING EXHAUST POLLUTANTS FROM SI ENGINES P.S. MYERS USPHS STARTED 1962	MADISON MADISON COST	WIS WIS \$ 22,000	497
498	AUSTRIA TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF VIENNA STUDIES ON AEROSOLS OF SIZES DOWN TO THE 0.105 MICRON RANGE C. PREINING USPHS STARTED 1966	VIENNA VIENNA COST	AUST AUST \$ 8,000	498
499	CANADA TITLE INVESTIGATOR SPONSOR PROJECT DATA	BRITISH COLUMBIA RESEARCH COUNCIL A STUDY OF REACTIONS OF SULFURIOUS AIR POLLUTANTS F.E. MURRAY USPHS STARTED 1963	VANCOUVER VANCOUVER COST	CAN CAN \$ 25,000	499
500	ENGLAND TITLE INVESTIGATOR SPONSOR PROJECT DATA	UNIVERSITY OF BIRMINGHAM REDUCTION OF HYDROCARBONS DURING INCOMPLETE COMBUSTION R. LONG USPHS STARTED 1964	BIRMINGHAM BIRMINGHAM COST	ENG ENG \$ 3,000	500
501	SWEDEN TITLE INVESTIGATOR SPONSOR PROJECT DATA	KAROLINSKA INSTITUTET EXTERNAL MEASUREMENT OF LUNG CLEARANCE IN RABBITS L.T. FRIBERG USPHS STARTED 1962	STOCKHOLM STOCKHOLM COST	SW SW \$ 30,000	501

SECTION 3

SUBJECT INDEX TO PROJECTS

In selecting the research subject areas, an attempt was made to keep the number of subjects to a minimum. In classifying projects into appropriate research subject areas, some difficulty was encountered. In a few cases, the reported description of the project was not sufficient for unambiguous classification; in a few others, the number and brief descriptions of the research subject areas was not sufficient for definite classification.

Research subject areas are listed alphabetically. Projects, listed alphabetically by title in each subject area, are referenced by Project Number to the listing of projects in Section 2.

Research subject areas used for classification are as follows:

- Agriculture
- Air Pollution Surveys and Survey Techniques
- Atmospheric Monitoring and Network Operations
- Biochemical
- Chemistry and Physics of the Atmosphere
- Control Devices or Methods
- Demographic
- Epidemiologic
- Gaseous Pollutant Sampling and Analysis
- Instrumentation Development
- Meteorology
- Miscellaneous Effects (Corrosion, odors, particulate retention, etc.)
- Miscellaneous Studies (Economics, statistics, legal, etc.)
- Particulate Sampling and Analysis
- Physiologic-pathologic (animal)
- Physiologic-pathologic (man)
- Radioactivity
- Source and Source Emission Studies
- Toxicologic

AGRICULTURE

AGRONOMIC ASPECTS OF FIELD BURNING OF CROP RESIDUE FROM GRASS SEED PROD.	398
AIR POLLUTION PROBLEMS IN THE NORTHEAST	117
A STUDY OF HYDROCARBONS IN THE ATMOSPHERE + EFF. OF POLLUTED ATMOSP. ON VE	067
CHANGING VEGETATION AND ATMOSPHERIC POLLEN	222
DIURNAL INVESTIGATIONS OF AIRBORNE FUNGI	150
EFFECT OF AIR POLLUTANTS ON CELL GROWTH	061
EFFECT OF AIR POLLUTION ON SOIL AND PLANT MICROBIOTAS	240
EFFECT OF AIR POLLUTANTS ON TISSUE GROWTH OF PLANTS	017
EFFECT OF AIR POLLUTANTS ON TISSUE GROWTH OF PLANTS	036
EFFECT OF AIR POLLUTANTS ON TOBACCO PRODUCTION	159
EFFECT OF FLUORIDES ON POLLINATION, DEVELOPMENT, AND YIELDS OF FRUIT TREES	400
EFFECT OF FLORIDES ON POLLINATION, DEVELOPMENT, AND YIELDS OF TREE FRUITS	399
EFFECTS OF AGRICULTURAL BURNING ON THE AIR ENVIRONMENT	396
EFFECTS OF AIR POLLUTANTS ON CARBOHYDRATE METABOLISM IN CITRUS	072
EFFECTS OF AIR POLLUTANTS ON PLANT CELL STRUCTURE	073
EFFECTS OF AIR POLLUTANTS ON PLANT GROWTH	094
EFFECTS OF AIR POLLUTION ON PLANT GROWTH	464
EFFECTS OF AIR POLLUTION ON SENSITIVE PLANTS - CELL STUDIES	053
EFFECTS OF AIR POLLUTANTS ON STORAGE, STABILITY AND PROCESSING LEMON FRU	068
EFFECTS OF DUSTS ON VEGETATION	050
EFFECTS OF FLUORIDES ON PLANT SYSTEMS	226
EFFECTS OF FLUORINE (AS FLORIDE) ON PLANT GROWTH AND YIELDS	049
EFFECTS OF INDUSTRIAL POLLUTANTS ON AGRICULTURAL CROPS	039
EFFECTS OF VARIOUS ENVIRONMENTS ON PLANTS AND PLANT PROCESSES	417
EFF. OF PHYTOTOXIC AIR POLL ON THE BIOCHEMISTRY + PHYSIOLOGY OF PLANT SYS	291
MECHANISMS OF OZONE INJURY TO CONIFERS	062
MODE OF FLUORIDE UPTAKE BY PLANTS	491
NATURE AND CONTROL OF OZONE INJURY TO PLANTS	090
OZONE INJURY TO FOREST TREES	239
PHYSIOLOGIC RESPONSE OF PLANTS TO EXPOSURE TO VARIOUS AIR POLLUTANTS	421
PLANT INDICATORS OF AIR POLLUTION AND AIR POLLUTANTS	289
RESPONSE OF PLANT FRUITING TO HYDROGEN FLUORIDE FUMIGATION	490
SUSCEPTIBILITY OF WESTERN CONIFERS TO AIR POLLUTION	044
THE EFFECT OF OZONE ON PLANT METABOLISM	465
THE EFFECT OF SO ₂ AND OTHER AIR CONTAMINANTS ON VEGETATION	463
THE EFFECTS OF ATMOSPHERIC POLLUTION ON VEGETATION	273
THE TOTAL EFFECT OF AIR POLLUTANTS ON BEARING CITRUS	071
VEGETATION DAMAGE FROM INDUSTRIAL PLANT EFFLUENTS	038

AIR POLLUTION SURVEYS AND SURVEY TECHNIQUES

A COMPREHENSIVE R + D PROGRAM ON ANALYTICAL AIR POLL. INSTRUMENTATION	016
AIR POLLUTION AND COMMUNITY HEALTH - NASHVILLE - A PROTOTYPE STUDY	449
AIR POLLUTION AND THE COMMUNITY IMAGE	492
AIR POLLUTION ASTHMA IN NEW ORLEANS + MICROBIOLOGIC SURVEY	134
AIR POLLUTION SURVEY	206
AIR POLLUTION SURVEY	476
AIR POLLUTION STUDIES FOR KANSAS CITY, KANSAS	208
AIR POLLUTION SURVEY FOR THE CITY OF CLINTON, IOWA	207
AIR POLLUTION ZONING IN PROVIDENCE, R.I.	144
AIR RESOURCES STUDIES	488
ANALYTICAL AND ODOR STUDIES OF ORGANIC GASES IN AIR	228
A MUTAGENIC ACTION OF AIR POLLUTANTS	048
ATMOSPHERIC POLLUTION BY AEROALLERGEN	197
CHEMICAL ANALYSIS TECHNIQUES FOR AIR POLLUTANTS	427
NATIONAL AIR POLLUTION POTENTIAL RESEARCH AND ADVISORY SERVICE	388
NEW YORK CITY SURVEY FOR CHRONIC RESPIRATORY DISEASE	247
PARTICULATE SAMPLING BY ADHESIVE-COATED MATERIALS	279
STUDY OF AIR POLLUTANT EFFLUENTS	209
SURVEY OF USSR LITERATURE ON AIR POLLUTION + RELATED OCCUPATIONAL DISEAS	098
THE CLIMATOLOGICAL BASIS FOR MANAGEMENT OF OREGON'S AIR RESOURCES	402

ATMOSPHERIC MONITORING AND NETWORK OPERATIONS

AIR MONITORING WITH A MOBILE LABORATORY	032
ATMOSPHERIC CARCINOGENS IN A DENSE PETROCHEMICAL AREA	462
ATMOSPHERIC DIFFUSION IN THE INERTIAL SUBRANGE	011
ATMOSPHERIC SULFUR BALANCE	029
CONTINUOUS AIR MONITORING PROGRAM	338
DETERMINATION OF ATMOSPHERIC CONCENTRATION LEVELS OF CERTAIN METALS	035
DISPERSION OF RADIOACTIVE AEROSOLS AND GASES IN THE ATMOSPHERE	165
FORMATION AND DECAY OF ATMOSPHERIC AEROSOLS	010
IDENTIFICATION OF ORGANIC COMPOUNDS IN THE ATMOSPHERE	002
INVESTIGATION OF AEROSOLS GENERATED OVER OCEANIC AREAS	013
MICROSCOPIC IDENTIFICATION OF ATMOSPHERIC PARTICULATES	141
MISC. ITEMS ON REMOVAL OF DUST FROM ATMOSPHERE IN INDUSTRIAL APPLICATION	280
NATIONAL AIR SAMPLING NETWORK (SAMPLING OPERATIONS)	375
OZONE PRECURSORS IN RURAL AIR	271
RADAR MEASUREMENTS OF THE MIXING LAYER OVER CITIES	012
SPECIAL FIELD STUDIES	376
SURVEY OF ATMOSPHERIC EMISSIONS	473
TRACE ANALYSIS METHODS FOR AIR POLLUTION STUDIES	152
TRAVELS OF AIRBORNE POLLEN	254
URBAN DIFFUSION MODELING	379

BIOCHEMICAL

ANATOMIC LOCALIZATION + PHYSIOLOGICAL EFF. OF INHALED AEROSOLS OF DIF. SI	060
A STUDY OF THE INTERACTIONS OF AIR POLLUTIONS NO ₂ AND BACT. INFECTION	135
ATMOSPHERIC AND STACK SAMPLING FOR FLORIDES	471
BIOCHEMICAL EFFECTS OF AIR POLLUTANT OXIDANTS	059
BIOCHEMICAL EFFECTS OF SIMULATED AIR POLLUTANTS	459
BIOCHEMISTRY OF TRACHEAL EPITHELIUM FOLLOWING EXPOSURE TO OZONE	193
BIOLOGICAL EFFECTS OF GASEOUS IONS	056
CHEMICAL FACTORS RELATED TO KRAFT ODOR CONTROL	158
CYTOGENETIC EFFECTS OF FLUORIDE	455
DEPOSITION BEHAVIOR OF AEROSOLS	320
DETERMINATION OF DAMAGE FROM 2,4-D SPRAYING IN THE MILTON-FREEWATER AREA	401
EFFECT OF FLUORIDES ON THE METABOLISM OF HIGHER PLANTS	121
EFFECTS OF PHOTOCHEMICAL AIR POLLUTANTS ON TREES	430
EFFECTS OF PURE AIR AND TERPENE VAPORS ON ORGANISMS	214
EVALUATION OF FILTERS WITH BIOLOGICAL ORGANISMS AS THE TEST MATERIAL	160
HYDROGEN-FLUORIDE AIR POLLUTION AND INTERMEDIARY METABOLISM	468
INTERACTION OF SULFUR DIOXIDE WITH CARBON SURFACES	429
LONG TERM EFF. OF INTENSIVE EXPOSURE TO NO ₂ IN THE 1929 CLEVELAND CLINIC FIR	365
MICROKINETICS STUDIES IN REACTIONS OF NITRIC OXIDE	018
MINERAL MATTER IN COAL	146
RELATIVE PHOTOCHEMICAL REACTIVITY OF ORGANIC SOLVENTS	034
STUDY OF INTERACTIONS OF AIR POLLUTANTS O ₃ AND BACTERIAL INFECTION	298
SYNTHESIS + TURNOVER OF FATTY ACIDS + GLYCEROLIPIDS IN PHOTOSYNTHETIC OR	058

CHEMISTRY AND PHYSICS OF THE ATMOSPHERE

AEROSOL PHYSICS	261
A-6-4 COMPARATIVE BIOLOGICAL EXPOSURES AND RESPONSES TO ATMOSPHERES	057
A STUDY OF ATMOSPHERIC TURBULENCE OVER A CITY	245
A STUDY OF THE CHEMICAL NATURE OF ATMOSPHERIC POLLUTANTS IN MILITARY ENV	003
A STUDY OF VIBRATING-CAPILLARY ATOMIZERS	124
ATMOSPHERIC DIFFUSION STUDIES	133

ATMOSPHERIC GEOCHEMISTRY STUDIES	085
ATMOSPHERIC LEAD AND CARBON MONOXIDE IN CINCINNATI - AEROMETRY	314
BASIC STUDY OF AIR POLLUTION CONTROL WET-SCRUBBERS	416
BEHAVIOR OF AEROSOL PARTICLES	120
CHEMICAL + ENVIRON. FACTORS AFFECTING OZONE CONCENTRATION IN THE LOWER TROPOSPHERE	272
CHEMICO-PHYSICAL PROPERTIES OF AIRBORNE PARTICULATE-GAS SYSTEMS	341
DUST FALL IN NORTH BOROUGHS AND NEVILLE ISLAND, PENN.	609
DYNAMICAL THEORIES OF KNUDSEN AEROSOLS	458
EFFECTS AND BIOLOGICAL INTERACTIONS OF AUTO EXHAUST, SOX AND NOX ATMOSPHERES	329
ELEMENTARY REACTIONS IN POLLUTED ATMOSPHERES	393
FORMATION AND DECAY OF PHOTOCHEMICAL AEROSOLS	009
FORMATION OF THE OXIDES OF NITROGEN DURING COMBUSTION	023
FUNDAMENTALS OF THE OPTICAL MEASUREMENT OF AEROSOLS	474
GAS-PARTICLE INTERACTIONS IN DISPERSED PHASE	367
GENERAL INVESTIGATION OF ATMOSPHERIC CHEMISTRY	084
GENERATION AND CHARACTERIZATION OF AEROSOLS	352
HYSTERESIS IN SMOG AND FOG DISAPPEARANCE	125
INFLUENCE OF AEROSOL CHARACTERISTICS ON VISIBILITY	484
INVESTIGATION OF ICE FOG PROBLEMS	004
KINETICS OF SULFUR-OXIDE FORMATION IN FLAMES	278
MEASUREMENT OF COMMON LEAD IN THE EARTH'S HYDROSPHERE	021
MECHANISMS OF AIR POLLUTION REACTIONS	106
MECHANISMS OF PHOTOCHEMICALLY INITIATED OXIDATIONS	284
MECHANISMS OF PHOTOCHEMICAL REACTIONS IN URBAN AIR	063
MESO WIND PATTERNS IN THE CENTRAL CALIFORNIA VALLEY	074
PARTIAL OXIDATION PRODUCTS FORMED DURING COMBUSTION	022
PERMEATION RATES OF TRACER GASES THROUGH POLYMERS	253
PHOTOCHEMICAL DECOMPOSITION OF SULFUR DIOXIDE	096
PHOTOCHEMISTRY AND KINETIC INVESTIGATIONS	285
PHOTOCHEMISTRY OF POLLUTED ATMOSPHERES	064
PHOTOCHEMISTRY OF SUBSTANCES PRESENT IN URBAN AIR	054
PHOTOLYTIC OXIDATION IN THE PRESENCE OF NITROGEN DIOXIDE	026
PHYSICAL AND CHEMICAL PROPERTIES OF URBAN ATMOSPHERIC AEROSOLS	384
PHYSICAL CHEMISTRY OF AEROSOLS	149
POTENTIAL VISIBILITY IN AIR QUALITY MEASUREMENT	007
PROTEIN BINDING AND METABOLISM OF 3-NITRO-3-HEXENE	122
REACTIONS OF SO ₂ IN PLUMES AND IN THE ATMOSPHERE	373
SHAPE OF ATMOSPHERIC PARTICLES	438
SPECTRAL PROPERTIES OF URBAN ATMOSPHERES	300
SPRAYS AND AEROSOLS	407
STRUCTURE AND REACTIVITY OF RADICALS AND MOLECULES	040
STRUCTURES OF SOME OXIDES OF NITROGEN	419
STUDIES OF PHYSICAL PROCESSES IN THE SURFACE BOUNDARY LAYER	132
TEMPERATURE MECHANISM IN ATMOSPHERIC OXIDANT PROCESS	441
THE EFFECT OF SO ₂ AND SO ₂ WITH AEROSOLS ON HUMANS AND ANIMALS	437

CONTROL DEVICES OR METHODS

ABATEMENT OF AIR POLLUTION	395
ACID HALIDE + AMMONIA ADSORPTION BY INNER COMPLEX SALTS	448
A CONTINUING PROGRAM OF AIR POLLUTION CONTROL EVALUATION	189
ADHESION OF DUST + ELECTRICAL BREAKDOWN REL TO ELECTROSTATIC PRECIPITATION	405
AIR POLLUTION FORECASTING TECHNIQUES FOR PENNSYLVANIA	415
AIR POLLUTION POTENTIAL OF DUPONT TYPE OPEN PIT INCINERATOR	435
ALKALINE ADDITIVES FOR SULFUR DIOXIDE CONTROL	288
ATMOSPHERIC GAS AND PARTICULATE SAMPLER	200
AUDIOVISUAL METHODS FOR AIR POLLUTION INFORMATION	470
CATALYTIC MECHANISMS FOR NITROGEN OXIDES REDUCTION	087
CATALYTIC REDUCTION OF OXIDES OF NITROGEN	047
CHARACTERIZATION OF FLUORIDE VOLATILITY EFFLUENTS UNDER ACCIDENT CONDITIONS	131

COMPANY AIR POLLUTION CONTROL PRODUCTS	184
CONTROLLED SOURCE OF UNIFORM LIQUID DROPLETS	148
CONTROL OF SULFUR DIOXIDE IN FLUE GASES FROM COAL FIRED PLANTS	237
DEMONSTRATION OF EFFECTIVENESS OF TWO SEPARATE ODOR REGULATION CONCEPTS	350
DEVELOP. • APPLICATION OF METEOROLOGICAL OBSERVING • FORECASTING TECHNIQUE	162
DEVELOP AND MONITOR PROTOTYPE STUDIES OF SULFUR DIOXIDE CONTROL	369
DEVELOPMENT OF A COMPREHENSIVE LOCAL AIR POLLUTION CONTROL PROGRAM	138
EFFECT OF AREA ON AIR POLLUTION CONTROL PROGRAMS	422
EFFECTS OF LOW LEVEL CONCENTRATIONS OF SO ₂ AND FLY ASH	472
ENVIRONMENTAL POLLUTION CONTROL SYSTEMS	199
EVALUATION OF AIR CLEANING SYSTEMS UNDER REACTOR ACCIDENT CONDITIONS	442
EXPERIMENTAL PROCEDURES FOR VEHICLE EMISSIONS MEASUREMENT	115
FUNDAMENTALS OF AIR CLEANING BY SORPTION PROCESSES	224
GAS CHROMATOGRAPHY OF OXIDANTS IN AIR POLLUTION	088
GAS CHROMATOGRAPHY OF PULP MILL ODORS	486
GAS PHASE REACTIONS OF AMINES WITH SULFUR DIOXIDE	440
GENERATION AND DECAY OF SMALL IONS	204
HETERO-HOMOGENEOUS CATALYSIS OF AIR POLLUTANTS	179
HIGH-EFFICIENCY AIR FILTER ENGINEERING MANUAL	443
INVESTIGATIONS OF SO ₂ • ACID MIST LEVELS IN VARIOUS PHASES OF PLANT OPER	454
KINETICS OF ADSORPTION BY MOLECULAR SIEVES	231
MECHANISMS OF OZONOLYSIS	126
MULTICOMPONENT EQUILIBRIUM ADSORPTION-AIR POLLUTION	183
NEW METHODS FOR CONTROL OF COMBUSTION GASES	370
NOXIOUS FUME ELIMINATION IN THE MANUF. OF MALEIC ANHYDRIDE-BUTENE PROCES	451
NUMEROUS PROJECTS ON AIR POLLUTION CONTROL	276
POLLUTION ABATEMENT BY PROCESS GAS CHROMATOGRAPHY	211
PROTOTYPE TEMPERATURE PROFILE PROBE SYSTEM	181
RADICAL CONTROL IN COMBUSTION PRODUCTS	238
R•D ON NEW AIR CLEANING TECHNIQUES AND TESTING METHODS	177
REDUCTION OF HYDROCARBONS DURING INCOMPLETE COMBUSTION	500
REMOVAL OF ORGANIC IODIDES FROM REACTOR CONTAINMENT ATMOSPHERES	479
RESEARCH • DEVELOPMENT ASSOCIATED WITH AIR POLLUTION CONTROL DEVICES	281
RESEARCH • DEVELOPMENT ON INDUSTRIAL GAS CLEANING PROCESSES, SYSTEMS • EQ	221
RESEARCH, TRAINING • DEGREE PROGRAMS IN THE FIELD OF AIR POLL. CONTROL	403
SIZE DISTRIBUTION OF AEROSOLS CONTINUALLY REINFORCED WITH PARTICLES	143
STUDIES OF OPERATING CHARACTERISTICS OF INCINERATION	198
TESTING FEASIBILITY OF BAGHOUSE ON WINDBOY END OF SINTER PLANT	025
TESTING NEW MEANS OF MEASURING AIR POLLUTION	348
THE ECONOMICS OF AIR POLLUTION CONTROL	495
THE EFFECTS OF AIR POLLUTION ON POLYMERS	229
TRACER TECHNIQUES IN AIR POLLUTION OF SULFUR DIOXIDE	089
USING BAG HOUSE COLLECTORS ON OIL AND COAL FIRED STEAM GENERATING PLANTS	220
VARIOUS PROGRAMS TO CONTROL INDUSTRIAL GASEOUS • PARTICULATE POLLUTION	275

DEMOGRAPHIC

1959-1961 UNITED STATES MORTALITY TABULATIONS AND ANALYSIS	317
RELATIONSHIP BETWEEN DAILY AEROMETRICS, METEOROLOGY, MORTALITY • MORBIDITY	356

EPIDEMIOLOGIC

AIR POLLUTION ASTHMA IN NEW ORLEANS • AEROMETRY	315
AIR POLLUTION ASTHMA IN NEW ORLEANS • EPIDEMIOLOGY	296
ATMOSPHERIC LEAD AND CARBON MONOXIDE IN CINCINNATI • EPIDEMIOLOGY	294
CHRONIC BRONCHITIS-EPIDEMIOLOGY STUDIES	252
EPIDEMIOLOGY OF BRONCHIAL ASTHMA IN CHILDREN IN PHILADELPHIA	406

GASEOUS POLLUTANT SAMPLING AND ANALYSIS

AIR QUALITY DATA STORAGE AND RETRIEVAL SYSTEM	318
ANALYSIS OF ATMOSPHERIC DUST BY ELECTRON OPTICS	210
ANALYSIS OF ATMOSPHERIC HYDROCARBON CONCENTRATIONS	033
ANALYSIS OF PARTICULATES FOR HIGH MOLECULAR WEIGHT ORGANIC SUBSTANCES	372
ANALYTICAL METHODOLOGY ON GASES AND VAPORS	359
ANALYTICAL STUDIES IN AIR POLLUTION	147
A STUDY OF REACTIONS OF SULFUROUS AIR POLLUTANTS	499
COMBUSTION GAS COMPOSITION	066
CONTINUOUS AIR SAMPLING AND ANALYSIS SYSTEM	201
DETERMINATION OF SULFUR DIOXIDE AND DUST IN THE ATMOSPHERE OF STRATTON D	283
DETERMINATION OF SULFUR DIOXIDE AND DUST IN THE ATMOSPHERE OF TORONTO ON	282
EFFECTS OF AIR POLLUTANTS ON CELLS IN VITRO	212
EVALUATION OF NEW + MORE ECONOMICAL APPROACHES TO EFFICIENT GAS CLEANING	168
GASEOUS REACTIONS OF CARBENES	171
INSTRUMENTATION FOR RAPID SAMPLING OF LARGE AIR MASSES	424
IONIZATION METHODS OF GAS ANALYSIS IN AIR	457
KINETIC BEHAVIOR OF INORGANIC RADICALS	151
MANUAL OF ANALYTICAL METHODS FOR AIR POLLUTANTS IN THE ATMOSPHERE	118
MANUAL OF METHODS FOR AMBIENT AIR SAMPLING AND ANALYSIS	225
METHODS FOR SAMPLING AND ANALYSIS OF AIR POLLUTION SOURCES	316
MODIFICATION + EVALUATION OF SAMPLING + ANALYTICAL METHODS	286
OXIDANT MEASUREMENTS IN PASADENA	020
PRELIM. INVESTIGATION OF LOWLEVEL BACKGROUND SO ₂ POLL. IN LARGE AIR MAS	180
RELATIONSHIP BETWEEN LEAD FROM MOTOR VEHICLE EXHAUST AND CONSUMER CROPS	065
SAMPLING AND ANALYTICAL PROCEDURES FOR SOURCE TESTING	031
SEPARATION TECHNIQUES ON GASES AND VAPORS	360
SEPARATION TECHNIQUES ON ORGANIC PARTICULATES	363
TO MEASURE BASELINE LEVELS OF CONTAMINANTS IN THE ATMOSPHERE	127
TRANSVERSE JET PLUMES	246

INSTRUMENTATION DEVELOPMENT

DETERMINE TOXIC AND IRRITANT LEVELS OF FORMALDEHYDE FUMES IN THE AIR	234
DEVELOPMENTAL SUPPORT FOR NETWORK INSTRUMENTATION AND METHODOLOGY	337
DEVELOPMENT + EVALUATION OF METHODS FOR THE MEASUREMENT OF SOILING RATE	349
DEVELOPMENT + IMPROVEMENT OF NEW + EXISTING INSTRUMENTS FOR AIR MONITORI	027
DEVELOPMENT OF A DRY COAL CLEANING VESSEL	102
DEVELOPMENT OF AIR POLLUTION SAMPLING AND CONTROL INSTRUMENTS	423
DEVELOPMENT OF ANALYTICAL METHODS FOR METEOROLOGICAL TRACERS	361
DEVELOPMENT OF ANALYTICAL MODEL TO PREDICT TRAVEL OF R/A GASES IN THE GR	477
FEASIBILITY AND DEVELOPMENT OF NEW AIR POLLUTION MEASUREMENT TECHNIQUES	347
INSTRUMENTAL TECHNIQUES FOR MEASURING PLUME TRANSMITTANCE	301
OPTIMUM SPECIFICATIONS FOR WIND SENSING INSTRUMENTS	194
RARE GAS REMOVAL WITH PERMEABLE MEMBRANES	444
STUDY OF AIR POLLUTANTS BY ABSORPTION SPECTROSCOPY	140
STUDY OF ATOMIZER AEROSOL GENERATORS	205

METEOROLOGY

AIR POLLUTION TRAJECTORY STUDIES	355
ANALYSIS OF MARINE LAYER, A MESO-METEOROLOGICAL STUDY	006
ANALYTICAL METHODOLOGY ON ORGANIC PARTICULATES	362
CLIMATOLOGY OF AIR POLLUTION	378
CLIMATOLOGY OF AIR POLLUTION POTENTIAL	325

DIFFUSION IN SHEAR FLOWS WITH THERMAL STRATIFICATION	082
FIELD STUDIES OF DIFFUSION AND DEPOSITION OF SMALL PARTICLES	227
FOURTH INTERNATIONAL BIOMETEOROLOGICAL CONGRESS	170
LOCAL AIR POLLUTION FORECASTING RESEARCH	297
METEOROLOGICAL INFLUENCES ON APPLICATION OF PESTICIDES IN FOREST AREAS	164
METEOROLOGICAL INFLUENCES ON THE SITING + OPERATION OF NUCLEAR REACTORS	161
METEOROLOGICAL STUDIES OF RADIOACTIVE FALLOUT	163
MESOSCALE WIND SYSTEMS AROUND THE GREAT LAKES	195
METEOROLOGICAL ANALYSIS PENNSYLVANIA AIR QUALITY DATA	426
METEOROLOGICAL ASPECTS OF AIR POLLUTION IN THE HACKENSACK MEADOWLANDS	223
METEOROLOGICAL STUDY OF METAL FUME DISPERSION, PINE CREEK VALLEY, PA.	412
METEOROLOGICAL STUDY OF ODOR DISPERSION IN OHIO RIVER VALLEY	411
PLANETARY TRANSPORT PROCESSES IN THE UPPER ATMOSPHERE	178
RAIN SCAVENGING OF AIRBORNE PARTICULATES	192
URBAN AEROSOL COUNT-SIZE RELATED TO METEOROLOGIC DATA	203

MISCELLANEOUS EFFECTS (CORROSION, ODORS, PARTICULATE RETENTION, ETC.)

AIR POLLUTION AND EFFECTS ON PROPERTY - CORROSION STUDIES	380
AIR POLLUTION AND EFFECTS ON PROPERTY - DYED FABRIC FADING	299
AIR POLLUTION AND EFFECTS ON PROPERTY - ELASTOMERS	382
AIR POLLUTION AND EFFECTS ON PROPERTY - TEXTILE DEGRADATION	381
AROMATIC BY-PRODUCTS OF COMBUSTION	069
FACTORS INFLUENCING THE FORMATION OF KRAFT MILL ODOR	485
IRRADIATION CHAMBER STUDIES-EFFECTS OF IRRADIATION ON MIXTURE OF POLLUTANTS	332
KRAFT ODOR DETECTION AND OBJECTIVABILITY THRESHOLDS	487
MALODOROUS PRODUCTS OF KRAFT BLACK LIQUOR COMBUSTION	070
PHOTOCHEMICAL EFFECTS OF OXIDANTS ON PLANTS	051
RELATION OF WALL QUENCHING OF FLAMES TO AIR POLLUTION	196

MISCELLANEOUS STUDIES (ECONOMICS, STATISTICS, LEGAL, ETC.)

AIR CLEANING BY HIGH-SPEED INERTIAL IMPACTION	123
AIR POLLUTION ASPECTS OF CHLORINE AND CAUSTIC MANUFACTURE	331
AIR POLLUTION ASPECTS OF COTTON GINNING	305
AIR POLLUTION ASPECTS OF HYDROCHLORIC ACID MANUFACTURE	357
AIR POLLUTION ASPECTS OF PHOSPHORIC ACID + RELATED FERTILIZER MANUFACTURE	322
AIR POLLUTION ASPECTS OF PHOSPHORIC ACID FURNACE MANUFACTURE	323
AIR POLLUTION ASPECTS OF PULP AND PAPER MANUFACTURE	358
AIR POLLUTION ASTHMA IN NEW ORLEANS - TEMPORARY RESIDENCE STUDY	324
AIR POLLUTION CONTROL INSTITUTE COMPUTER EXERCISE	079
AIR POLLUTION MATHEMATICAL MODELS	335
AIR RESOURCE PROJECT	394
ALABAMA AIR POLLUTION AND HEALTH STUDY - AEROMETRY	344
APPLIED RESEARCH IN PULP AND PAPER INDUSTRY	155
APPLIED SCRUBBER RESEARCH FOR POLLUTION CONTROL	287
A STUDY OF DENVER AIR POLLUTION	083
CHARLESTON-KANAWHA VALLEY AIR POLLUTION STUDY	346
COOPERATIVE AIR POLLUTION AND HEALTH STUDY WITH AMERICAN CANCER SOCIETY	326
DIESEL EMISSION CONTROL - PHASE II	453
FERNANDINA BEACH AND ST. MARYS COMMUNITY AIR POLLUTION STUDY	354
FILTRATION APPLICATION RESEARCH	368
INTERNATIONAL AIR POLLUTION CONGRESS - LONDON	404
INTERPRETATION + PUBLICATION OF AIR QUALITY DATA (INTERPRETATIVE REPORTS)	387
INTERPRETATION AND PUBLICATION OF AIR QUALITY DATA (STATISTICAL ANALYSIS)	330
IN VIVO STUDIES OF CILIATED MAMMALIAN EPITHELIUM	139

MATHEMATICAL MODELS OF URBAN AIR POLLUTION DYNAMICS	244
METROPOLITAN WASHINGTON AIR POLLUTION STUDY	340
PHYSICAL CHEMICAL STUDIES OF AEROSOLS	230
PROPRIETARY STUDIES ASSOCIATED WITH THE USE OF COMPANY PRODUCTS	434
PUEBLO, COLORADO STUDY - AEROMETRY	313
STUDIES OF THE BEHAVIOR OF THE ATMOSPHERIC AEROSOLS	019
STUDIES ON AEROSOLS OF SIZES DOWN TO THE 0.05 MICRON RANGE	498
UNITED STATES-JAPAN COOPERATIVE AIR POLLUTION + HEALTH RESEARCH PROGRAM	327
VERTICAL DISTRIBUTION OF AIR POLLUTANTS	408

PARTICULATE SAMPLING AND ANALYSIS

ANALYSIS OF FLUE GAS FROM STEAM GENERATOR	456
DUST DEPOSITION AND RETENTION	263
LASER MEASUREMENT OF AIR POLLUTION PARAMETERS	142
NATIONAL AIR SAMPLING NETWORK SUPPORTING LABORATORY OPERATIONS	345
SEPARATION AND ESTIMATION OF AIRBORNE PARTICULATES	153
SURFACE PROPERTIES OF SMALL PARTICLES	374

PHYSIOLOGIC+PATHOLOGIC (ANIMAL)

ANIMAL TEST FOR BIOLOGICALLY ACTIVE AIR CONTAMINANTS	024
BIOLOGICAL EFFECTS OF AUTOMOTIVE AIR POLLUTANTS ON ANIMALS	030
BIOLOGIC SEQUELAE IN RATS EXPOSED TO NITROGEN DIOXIDE	041
DETECTION OF RESPIRATORY DISEASES IN ANIMALS	319
EFFECTS OF ATMOSPHERIC POLLUTANTS ON SUSCEPTIBILITY TO RESP. INFECTION	136
EFFECTS OF FLUORINE LEVELS ON PASTURE GRASS + PERFORMANCE OF BEEF CATTLE	447
EXTERNAL MEASUREMENT OF LUNG CLEARANCE IN RABBITS	501
FLUOROSIS IN PLANTS AND ANIMALS	469
PHYSICAL AND CHEMICAL CHARACTERIZATION AND CONTROL OF ANIMAL EXPOSURE	302
PHYSIOLOGICAL RESPONSE OF RATS EXPOSED TO URANIUM DIOXIDE	258
PHYSIOLOGIC RESPONSE IN ANIMALS TO VARYING EXPOSURES TO AIR POLLUTANTS	428
PULMONARY EFFECTS OF INHALATION OF PARTICULATES AND GASES USING ANIMALS	414
RESPONSE OF MICE TO VARIOUS SYNTHETIC ATMOSPHERES	270
SPONTANEOUS CANINE PULMONARY TUMORS	093
STUDY OF EXPERIMENTAL ANIMALS EXPOSED TO AMBIENT AIR POLLUTION	078
VIABLE SPECIES OF ALGAE AND PROTOZOA IN THE ATMOSPHERE	450

PHYSIOLOGIC+PATHOLOGIC (MAN)

A CYTOLOGIC STUDY OF AIR POLLUTION EFFECTS IN MAN	052
AIR POLLUTION AND FAMILY ILLNESS	483
AIR POLLUTION AND HEALTH EFFECTS IN LOS ANGELES	080
AIR POLLUTION MEDICAL RESEARCH CONFERENCE	128
ALABAMA AIR POLLUTION + HEALTH STUDY - BIOMETRY	001
ALTERED NERVOUS SYSTEM ACTIVITY FROM AIR POLLUTION EXPOSURES	386
ASSESSMENT OF CHANGES PRODUCED WHEN PATIENTS WITH RESPIR DIS BREATHE O ₂	157
ATMOSPHERIC POLLUTION AND ACUTE RESPIRATORY DISEASE	233
ATMOSPHERIC POLLUTION AND RESPIRATORY DISEASE	097
BALTIMORE MD. AIR POLLUTION HEALTH EFFECTS STUDY - AEROMETRY	353
BREATHMORILE PROJECT	075
CARDIOPULMONARY PHYSIOLOGY IN BRONCHIAL ASTHMA	166

CHRONIC BRONCHITIS - BACTERIOLOGICAL STUDIES	251
CLEARANCE OF NON-GASEOUS MATERIALS FROM RESPIRATORY TRACT OF ANIMAL + MA	265
CYTOLOGICAL STUDIES OF THE INTERACTION OF NOXIOUS AGENTS	257
DEPOSITION AND CLEARANCE OF PARTICLES IN LUNGS	176
DIESEL EXHAUST, COMPOSITION, ODOR AND EYE IRRITATION	433
DRUGS AND THE AERIAL INFECTIVITY OF TUBERCULOSIS	461
EFFECT OF AIR POLLUTION ON HEALTH	137
EFFECTS OF AIR POLLUTANTS ON PATHOGENICITY	466
EFFECTS OF SMOKING AND AIR POLLUTION ON CLEARANCE OF PARTICLES FROM LUNG	262
EFFECTS OF TOXIC AGENTS + ENVIRONMENTAL FACTORS ON HUMAN BEHAVIOR	042
ENVIRONMENTAL FACTORS AND CHRONIC BRONCHITIS	169
ENVIRONMENTAL FACTORS IN CHRONIC NON-SPECIFIC RESPIRATORY DISEASE	174
EPIDEMIC ASTHMA RELATED TO AIR POLLUTION	364
EPIDEMIOLOGY OF RESPIRATORY DISEASE IN JAPAN	351
EXPERIMENTAL AIR POLLUTION AND HUMAN LUNG CLEARANCE	182
EYE IRRITATION FROM IRRADIATED AUTO EXHAUST	391
LUNG FUNCTION	336
MECHANICAL FACTORS IN THE CONTROL OF BREATHING	175
MECHANICS OF MUCUS FLOW AND CILIARY ACTION	241
MECHANISMS + PATHWAYS OF CLEARANCE OF INHALED PARTICULATE MATERIAL	256
MORPHOLOGICAL, CYTOLOGICAL, AND THE PATHOLOGICAL STUDIES RELATED TO THE LU	266
PATHOPHYSIOLOGIC RESPONSES OF HUMANS TO AIR POLLUTANT MIXTURES	439
PERFORMANCE FACTORS FOR RESPIRATORS AND GAS MASKS	173
PHYSIOLOGICAL EFFECTS OF SULFUR OXIDES	236
PHYSIOLOGICAL RESPONSE TO ATMOSPHERIC POLLUTANTS	172
PHYSIOLOGICAL STUDIES ON AIR POLLUTION	091
PHYSIOLOGY AND PATHOLOGY OF AIRWAYS AND AIR HYGIENE	167
POLLUTANTS + HUMAN FUNCTION ENVIRONMENT CONTROLLED	037
PRELIMINARY REVIEW OF ASTHMA MORBIDITY REPORTED IN SEVERAL CITIES IN LA.	156
PULMONARY DEPOSITION AND CLEARANCE OF DUST IN MAN	243
REACTIONS OF LUNG TISSUE TO AIR POLLUTANTS	076
RELATIONSHIP BETWEEN AIR POLLUTION AND INDUSTRIAL ABSENTEEISM	328
RELATIONSHIP OF AIR POLLUTION + NASAL + EYE IRRITATION IN CHARLESTON, WVA	493
RELATIONSHIP OF AIR POLLUTION TO ALLERGIC DISEASES	202
RESPIRATORY PHYSIOLOGY AS AFFECTED BY INDIVIDUAL AND COMBINED POLLUTANTS	339
SPECIFIC TRACE ELEMENTS IN AIR RELATED TO HEALTH - AEROMETRY	383
SPECIFIC TRACE ELEMENTS IN AIR RELATED TO HEALTH-EXPLORATION OF ASSOC.	295
STUDIES OF THE EFFECTS OF AIR POLLUTION ON MORBIDITY AND MORTALITY	255
STUDY OF EFFECTS OF AIR POLLUTION ON ANIMALS AND HUMANS	268
SUBJECTIVE EFFECT OF AIR POLLUTANTS ON THE HUMAN EYE	392
SULFIDE POISONING AND METHEMOGLOBINEMIA	215
THE CLEARANCE OF BACTERIA FROM PULMONARY TISSUE	217
THE EVOLUTION OF PULMONARY EMPHYSEMA	077
THE FATE OF INHALED PARTICULATE LEAD COMPOUNDS	389
THE FATE OF INHALED PARTICULATE LEAD COMPOUNDS	390
THE GENESIS PROGRAM - AIR POLLUTION	250

RADIOACTIVITY

ATMOSPHERIC RADIOACTIVITY AND FALLOUT	481
ATMOSPHERIC RADIOACTIVITY + FALLOUT, RADIOISOTOPES AS PARTICLES + VOLATIL	480
EFFECTS OF SIZE + PROPERTIES OF INHALED RADIOACTIVE PARTICLES	475
EFF. OF RADIOIODINE IN SHEEP + SWINE + OF RADIOSTRONTIUM IN MINIT. SWINE	478
FALLOUT IN RAIN	005
FORMATION AND DISTRIBUTION OF NUCLEAR DEBRIS	045
INHALATION STUDIES OF ALPHA EMITTERS	264
MEASUREMENTS OF RADIOACTIVE NUCLIDES IN AIR ON ARG. NATL. LAB. SITE + VICIN	130
MONITORING AIRBORNE RADIOACTIVITY NEAR A NUCLEAR REACTOR	134
PHYSICAL CHEMISTRY OF FALLOUT	046
RADIOBIOLOGY OF INHALED RADON AND ITS DECAY PRODUCTS	262

REACTIONS OF ATOMIC OXYGEN	086
REACTIONS OF ATOMIC OXYGEN	494
RESEARCH PROGRAM ON ATMOSPHERIC RADIOACTIVITY AND FALLOUT	055
SPACE NUCLEAR SYSTEMS STUDIES	482
STUDIES OF DISPERSION + DEPOSITION OF RADIOACTIVE DEBRIS	213
STUDIES OF NUCLEAR WEAPONS DEBRIS AS AEROSOLS + THEIR WASHOUT CHARACTERI	043
STUDY OF IRRADIATED AIR POLLUTANTS ON SPREAD FILMS	232
ZPPR ROOF SAND FILTRATION OF URANIUM, PLUTONIUM AND URANINEAEROSOLS	129

SOURCE AND SOURCE EMISSION STUDIES

A COMPUTER PROGRAM TO SIMULATE EMISSION + TRANSPORT OF AIR CONTAMINANTS	028
ADVANCED VEHICULAR POWER PLANTS	371
AEROMETRIC STUDIES IN THE VICINITY OF POWER PLANTS	187
AIR POLLUTION ASPECTS OF GRAY IRON AND STEEL FOUNDRIES	303
AIR POLLUTION ASPECTS OF IRON AND STEEL MANUFACTURE	304
ALKALIZED ALUMINA PROCESS FOR SO ₂ REMOVAL FROM FLUE GAS	112
ANALYSIS OF SELECTED AMERICAN COALS FOR PYRITIC SULFUR	116
AUTO EXHAUST STUDIES	366
AUTOMOTIVE EMISSION CONTROL DEVELOPMENT	334
AUTOMOTIVE EMISSION CONTROL EVALUATION	342
AUTOMOTIVE EMISSION EVALUATION	343
AUTOMOTIVE EMISSIONS STANDARDS	333
CARBURETORS REDUCTION OF ENGINE EXHAUST EMISSIONS	191
CHARACTERIZATION OF ENERGY + AEROSOLS GENERATED FROM SODIUM POOL FIRES	014
CHARACTERIZATION OF ENERGY + AEROSOL TRANSPORT FROM ORGANIC COOLANT RELE	015
CHARACTERISTICS AND PHOTOCHEMICAL REACTIVITY OF VEHICULAR EMISSIONS	105
CHARACTERISTICS + REMOVAL OF PYRITIC SULFUR FROM SELECTED AMERICAN COALS	108
CHAR SORPTION OF FLUE GAS POLLUTANTS	377
COALESCENCE OF DROPS IN A GASEOUS MEDIUM	496
COMBUSTION EMISSION REDUCTION	385
COMBUSTION PRODUCTS OF ORGANOPHOSPHOROUS PESTICIDES	460
COMPOSITION, SMOKE, AND ODOR OF DIESEL EXHAUSTS	100
CONFERENCE + ATMOSPHERIC EMISSIONS FROM SULFATE PULPING	119
DESULFURIZATION OF COAL BY FROTH FLOTATION	104
DEVELOPMENT OF A CONTINUOUS MONITORING SYSTEM TO MEASURE STACK GASES	432
DEVELOPMENT OF AN AMMONIA PROCESS TO REMOVE SO ₂ AND SO ₃ FROM FLUE GASES	188
DIESEL EXHAUST STUDY	436
EFFECT OF FUEL VOLATILITY ON AUTOMOTIVE EMISSIONS	107
EFFECTS OF ENGINE, FUEL, + COMBUSTION SYST PARAMETERS ON VEHICULAR EMISSIO	101
ELIMINATION OF AIR POLLUTION FROM BURNING REFUSE PILE	420
ENGINE COMBUSTION AND CARBURETION STUDIES AS RELATED TO SMOG CONTROL	055
EVALUATION OF PROCESSES FOR DESULFURIZING PETROLEUM-TYPE OILS	113
EXHAUST EMISSIONS OF A STRATIFIED-CHARGE ENGINE AND ITS PERFORMANCE	425
FUEL FACTORS IN AUTOMOTIVE EXHAUST EMISSIONS	145
FULL-SCALE FIELD STUDY OF INVERSION BREAKUP AT LARGE POWER PLANTS	445
FULL-SCALE FIELD STUDY OF PLUME RISE AT LARGE ELECTRIC GENERATING STATIO	446
FUNDAMENTAL ASPECTS OF STACK PLUME OPACITY	235
GUIDE TO GOOD PRACTICE FOR DIRECT-FED MULTIPLE CHAMBER INCINERATORS	311
GUIDE TO GOOD PRACTICE FOR FLUE-FED INCINERATORS	310
GUIDE TO GOOD PRACTICE FOR LARGE COAL BURNING UNITS >100MM BTU/HR INPUT	307
GUIDE TO GOOD PRACTICE FOR LARGE OIL BURNING UNITS >100MM BTU/HR INPUT	308
GUIDE TO GOOD PRACTICE FOR PATHOLOGICAL INCINERATORS	306
GUIDE TO GOOD PRACTICE FOR SMALL OIL BURNING UNITS <100MM BTU/HR INPUT	309
INCINERATOR PROCESSES AND EMISSIONS	418
INVESTIGATION OF MULTICLONE TUBE PLUGGING IN MECHANICAL PRECIPITATORS	218
LOW EXCESS AIR TO REDUCE STACK EMISSION	219
MEASUREMENTS OF INDUSTRIAL AND TRUCK AND BUS EMISSIONS	452
MINIMIZING EXHAUST POLLUTANTS FROM SI ENGINES	497
NATIONAL CLEANER AIR WEEK	274

PARTICULATE EMISSIONS FROM WOOD WASTE COMBUSTION	397
POLLUTANTS FROM VARIOUS PROCESSES AND THEIR ABATEMENT	277
POLLUTION BY CHLORINE IN COAL COMBUSTION	099
PREPARATION OF COMPUTER PROGRAM FOR SO ₂ DISPERSION FROM POWER PLANT STAC	185
PULP MILL RESEARCH	489
REMOVAL OF AMMONIA FROM CALCINING EXHAUST GASES	413
REMOVAL OF PYRITIC SULFUR FROM COAL BY MAGNETIC MEANS	109
REMOVAL OF SO ₂ FROM FLUE GAS USING MANGANESE OXIDES + IMPROVED REGENERAT	111
REMOVAL OF SULFUR OXIDES BY ADDITION OF LIMESTONE	110
SAFE LIMITS OF AIR POLLUTION FROM PRODUCTS OF FUEL COMBUSTION	269
SIGNIFICANCE OF EXHAUST PATTERNS OBTAINABLE WITH RECORDING SMOKE METERS	267
SMOKELESS INCINERATION OF BULKY REFUSE	248
SOURCE EMISSIONS EVALUATION	321
STUDY OF EMISSION PATTERN ON FURNACE FLUE SYSTEMS	249
STUDY OF METHODS + EQUIPMENT FOR MEASUREMENT OF DUST IN STACK GASES	186
STUDY OF REACTIONS OF COAL AND PITCH WITH SO ₂	114
STUDY OF WASHABILITY OF SELECTED COALS WITH RESPECT TO PYRITE REMOVAL	103
TECHNIQUES FOR ANALYZING, EVALUATING, + CONTROLLING MOTOR VEHICLE EXHAUST	008
TESTS ON CREMATORY DESTRUCTORS TO DETERMINE PARTICULATE EMISSIONS	092
TIME VARIATION OF MAJOR AIR POLLUTANT EMISSIONS	312
TRAILER-TRUCK AIR POLLUTION ON PENNSYLVANIA TURNPIKE	410
TREATMENT OF FLUE GAS FOR SO ₂ REDUCTION	081
TRUCK AND BUS CYCLE DEVELOPMENT	190
TURBULENCE AND PARTICLE EROSION IN SMOKE CONTROL	216
USE OF GROUND DOLOMITE IN CONTROLLING EMISSIONS FROM OIL FIRED FURNACES	431

TOXICOLOGIC

BIOLOGICAL EFFECTS OF POLYNUCLEAR AROMATIC HYDROCARBONS ON ANIMALS	467
INHALATION TOXICOLOGY OF COMBINED SO _x AND PARTICULATE CONTAMINANTS	292
INTERRELATIONS BETWEEN THE PHYTOTOXICITY OF SPECIFIC AIR POLLUTANTS	290
PSYCHO-PHARMACOLOGIC APPROACH TO THE STUDY OF TOXIC AGENTS	260
THE TOXICOLOGY OF INHALED MATERIALS	259
TOXICOLOGICAL STUDIES OF AIR POLLUTION MIXTURES	293

SECTION 4

INVESTIGATOR INDEX TO PROJECTS

Investigators are listed alphabetically. Projects for each investigator are referenced by Project Number to the listing of the projects in Section 2.

D.F.ADAMS	486, 487, 488
R.E.ADAMS	442
R.E.ALBERT	242, 243
P.W.ALLEN	213
F.C.ALLEY	441
A.P.ALTSHULLER	285
M.O.AMDUR	172
H.G.APPLEGATE	455
R.J.AYEN	047
W.J.BAIR	475
O.J.BALCHUM	076, 077
J.J.BALLENGER	139
D. BARNES	471
J.E.BARNEY	206
E.W.BARRETT	142
W.J.BARRETT	002, 003
T.D.BATH	207, 208, 209
BATTELLE INST	282, 283
M. BATTIGELLI	436
M.C.BATTIGELLI	269
R.R.BEARD	042
R.V.BEGA	044
W.L.BELSER	048
H.M.BENEDICT	038, 039
F.B.BENSON	286
S.W.BENSON	040
D. BIENSTOCK	099
P.J.BIERBAUM	287
S.S.BLECHARCZYK	440
A.W.BLOMQUIST	199
J.A.BOLT	191
R.H.BORGWARDT	288
R.W.BOUBEL	396, 397
A. BOUHIJYS	091
C.S.BRANDT	289, 290, 291
R.W.BREWER	049
J.R.BROCK	458
R.J.BRYAN	027, 028, 029, 030
M.F.BUELL	222
C.A.BURCHSTED	443
W.A.BURGESS	173
G. BURTON	437
J.G.CALVERT	284
S. CALVERT	416
K.I.CAMPBELL	292, 293
R.D.CANLE	086
R.E.CAPROLL	294, 295, 296
E.A.CARSEY	281
L.J.CASARETT	256, 257
J.E.CERMAK	082
L.A.CHAMBERS	078
R.L.CHAPMAN	016
C.L.CHEEVER	129
D.O.CHILCOTE	398
J.F.CLARK	297
E.L.COE,JR.	081

D.L.COFFIN	298
O.C.COMPTON	399, 400
C.J.CONLEE	299
W.D.CONNER	300, 301
H. CONSTANTINE	182
P. COOPERMAN	216
W.H.CORCORAN	018
M. CORN	438, 439
T.D.COSTAIN	100, 101
D.W.COWAN	202
W.L.CRIDER	302
G.R.CROCKER	045
T.D.CROCKER	495
E.J.CROSBY	496
D.F.CROSSAN	094
S.T.CUFFE	303, 304, 305, 306, 307, 308, 309, 310, 311, 312
R.L.CUMMINS	313
E.F.DARLEY	050
B. DAVIDSON	244
H.M.DECKER	160
W.F.DEETER	008
K.J.DEJUHASZ	407
R.J.DELAND	245
A.W.DEURBROUCK	102, 103, 104
R.C.DICKERSON	314, 315
B. DIMITRYADES	105, 106
A.N.DINGLE	192
B.D.DINMAN	193
D.P.DISCHER	075
J.A.DORSEY	316
I.B.DOUGLASS	158
W.L.DOWNS	258
D.B.DRUMMOND	417
E.A.DUFFY	317
W.M.DUGGER JR	051
B.H.ECCLESTON	107
J.F.EGE, JR.	130
R. EHRLICH	135, 136
H.F.ELKIN	434
R.B.ENGDAHL	277
S. ERGUN	108, 109
R.H.ESENHUGH	418
F.L.ESTES	459
D.H.FAIR	318
G.A.FAIRCCHILD	319
A.L.FALA	413
S.M.FARBER	052
A. FELMEISTER	232
B.G.FERRIS	174
J.H.FIELD	110, 111, 112
G.T.FISHER	448
J. FLESCH	320
S.R.FRANK	006
V.W.FREED	401

G. FREEMAN	041
L.T.FRIEBERG	501
S.K.FRIEDLANDER	019
A.P.FUDURICH	031
J.J.FUQUAY	476
F.E.GARTRELL	445, 446
H.W.GEHR	155
R.W.GERSTLE	321
L.S.GIRSH	406
R.B.GIATER	053
H.J.GLUSKOTER	146
T.M.GOCKE	251, 252
A. GOETZ	009, 010
D.R.GOODWIN	322, 323
C.E.GRACIAS	147
L. GREENBURG	268
R.J.GRENSHIELDS	145
D.A.GREENWOOD	467
K.W.GRIMLEY	001
P. GROSS	414
F.T.GUCKER	149
A.J.HAAGEN-SMIT	020
J. HALITSKY	246
H.J.HALL	221
W.J.HAMMING	032, 033, 034
A.V.HAVENS	223
M. HEAD	470
R.J.HEANEY	463
H.L.HELWIG	024
C. HENDRICKS	148
E.R.HENDRICKSON	118, 119, 225, 404
E.W.HEWSON	194, 195
C.R.HIRBEN	239
C.A.HILL	464
E. HINES	185, 186, 187, 188
I.C.HISATSUNE	419
R.W.HITESHUE	113, 114
C.S.HORBS	447
J.R.HODKINSON	474
R.K.HOFMAN	324
J.Z.HOLLAND	095
J.M.HOLMES	444
G.C.HOLZWORTH	325
F.W.HORNER	280
R.J.HORTON	326, 327, 328
C.N.HOWISON	274
F.G.HUETER	329
E.M.ILGENFRITZ	189
W.T.INGRAM	247
D. INGOLDSTAD	249
S. JAFFE	026
C.M.JANKOWSKI	180
H.H.JELLINEK	229

L.W. JOHNSON	330
H.S. JOHNSTON	054
A.A. JONKE	131
C.R. KAISER	248
R.A. KEHOE	389
M. KERKER	230
R.E. KERR	007
R.O. KERR	451
J.K. KINDIG	420
L. KING	477
G.B. KISTIAKOWSKY	171
J.C. KNUDSON	331
R.D. KOPA	055
S.L. KOPCZYNSKI	332
R.K. KOPPE	489
M.W. KORTH	333, 334
G. KOTNICK	431, 432
J.L. KOVACH	276
A.P. KRUEGER	056
P. KRUGER	043
P.K. KURODA	005
N. LACASSE	421
K.F. LAMPF	122
E.G. LANG	454
R.I. LARSEN	335, 336
G.A. LAURENZI	217
L.J. LEACH	259, 260
J.O. LEDBETTER	460
E.C. LEDUC	422
K.W. LEFFLAND	079
C.A. LEMASTRE	461
M. LEPPER	137
B.S. LEVINE	098
A.M. LEVY	278
R. LEWIS	156
R.J. LEWIS	337, 338
T.R. LEWIS	339
J.P. LODGE JR	084
R. LONG	500
A.J. LOUSTALOT	117
J.E. LOVELOCK	457
M.J. LOW	224
W.P. LOWRY	402
D.A. LUNDGREN	423
P.B. MACCREADY, JR.	011
L. MACHTA	161, 162, 163, 164
R.D. MACPHEE	035
F.D. MADDOX	340
M. MALANCHUK	341
E.A. MARTELL	085
L.C. MCCABE	472, 473
J. MCCARROLL	483
J.P. MCCARROLL	233
W.H. MCCLURG	092

W.C.MCCRONE	141
R. MCFADDEN	424
A.R.MCFARLAND	200
H.C.MCKEE	452
J.L.MCKEWEN	168
W.F.MCMICHAEL	342, 343
G.R.MCMILLAN	393
T. MCNULTY	465
J. MEAD	175
F.L.MEADOWS	344
T.R.MEE	012, 013
H.A.MENSER	159
T. MERCER	261
W.E.MEYER	425
J.T.MIDDLETON	057
C.E.MILLER	241
G.W.MILLER	468
M.L.MINER	469
W. MIRSKY	196
C.E.MOORE	140
G.B.MORGAN	345
D.A.MORKEN	262
R. MORRISON	346
P.E.MORROW	263, 264, 265
W. MOSES	132, 133, 134
W. MOUNT	181
J.B.MUDD	058, 059
J.H.MULLAHY	154
F.E.MURRAY	499
P.S.MYERS	497
J.A.NADEL	060
J.S.NADER	347
J. NEAL	462
R.S.NEKOMCTO	127
R. NELIGAN	348, 349, 350
R.E.NEWELL	178
V.A.NEWILL	351
H. NEWSTEIN	408
W.R.NEWTN	456
S.W.NIELSEN	093
F.J.NORTON	253
A.E.NUGENT	352
E.C.OGDEN	254
T. OHTAKE	004
L. ORDIN	061
C. ORR JR	123, 124, 125
D.M.PACE	212
D. PACK	165
M.R.PACK	490
S.M.PADY	150
J.L.PALOTAY	478
H. PANOFISKY	426
C.E.PARKER	218
J.R.PARMETER, JR	062

B.F.PARR	353
F. PARTFE	354
C.C.PATTERSON	021
H.J.PAULUS	203
G.W.PENNEY	405
S. PERMITT	166
M.S.PETERS	087
E.A.PIRSH	275
J.N.PITTS, JR.	063
F. POOLFR, JR.	355
J.W.POWERS	494
O. PREINING	498
D.F.PROCTOR	167
J.T.GUAN	046
R.W.GUTMAN	449
J.E.QUON	143
E.P.PADFORD, JR.	390
T.D.RAMACHANDRAN	427
R.E.PANKIN	492
L.R.PECKNER	433
R.D.REED	395
G.W.REID	394
R.A.RHOADES	428
H.U.RHOADS	210
S. RICH	090
H. RIEHL	083
W.B.RIGGAN	356
L.A.RIPPERTON	270, 271, 272, 273
S.N.ROKAW	037
A.T.ROSSANO	484
J.J.SARLESKI	357, 358
B.W.SAGE	022, 023
B.E.SALTZMAN	359, 360, 361
M.A.SALZENSTEIN	144
R.G.SANDERS	201
J.S.SANTOLERI	435
F. SARGENT	170
K.V.SARKANEN	485
C.N.SATTERFIELD	179
E. SAWICKI	362, 363
M.J.SCHAEER	211
H.E.SCHLICHTING	450
E.A.SCHUCK	064, 065
C.E.SCHUMANN	279
L.C.SCHAENDIMAN	479, 480
D.E.SEIZINGER	115
D.W.SETSER	151
C.R.SHARP	364, 365
J.V.SHELDON	197
R.S.SHOLTES	120
H.L.SHULMAN	231
M. SILBERBERG	014, 015
C.L.SIMPSON	481
B.M.SMITH	367

J.H.SMITH	025
M.E.SMITH	227
R.I.SMITH	219, 220
R.P.SMITH	215
R.E.SNFLL	097
P. SPAITE	368, 369, 370
W.S.SPICER	169
K.J.SPRINGER	453
R.C.STAHMAN	371
T.W.STANLEY	372
W.J.STANLEY	138
E.S.STARKMAN	066
B.J.STEIGERWALD	373
E.R.STEPHENS	067
L. STETTLER	374
W.S.STEWART	017
P.R.STORY	126
G. STOTZKY	240
B. STOUT	493
C.W.SULZBRACH	491
V.H.SUSSMAN	415
E.C.TABOR	375, 376
O.C.TAYLOR	068
B.D.TEBBENS	069
F. TERRAGLIO	403
J.F.THOMAS	070
C.R.THOMPSON	071, 072
R.C.THOMPSON	482
W.W.THOMSON	073
R.B.TIMMONS	096
W.F.TODD	377
M. TRESHOW	466
L.E.TRUPPI	378
A. TURK	228
TURNER	234
D.B.TURNER	379
J.B.UPHAM	380, 381, 382, 383
P. URONE	088, 089
E. VENABLE	409, 410, 411, 412
E.K.VON BRAND	267
J. WAGMAN	384
F.E.WALKER	116
P.L.WALKER	429
T.A.WALTERS	184
J.H.WASSER	385
G.E.WATKINS	235, 236, 237
P. WEHRLE	080
L. WEINSTEIN	226
M.I.WEISBURD	128
F.W.WENT	214
P.W.WEST	152, 153
K.T.WHITBY	204, 205
J.L.WHITTENBERGER	176, 177

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R.H.WILEY	238
J.W.WILSON	198
W. WINKELSTEIN	255
C. WOLCOTT, JR.	190
S.S.WOLTZ	121
F.A.WOOD	430
E.L.WYNDER	230
C. XINTARAS	386
W.E.YATES	074
C.L.YUILE	266, 266
M.R.ZAVON	391, 392
C.E.ZIMMER	387
J. ZIMMERMAN	388
M.M.ZISKIND	157

- FIGURE 1 -

ACTIVE AIR POLLUTION RESEARCH PROJECTS
DURING CALENDAR YEAR 1966

Note: Please Make Separate Report on Each Project

Return to: Charles E. Zimmer, Chief
Planning and Data Analysis Unit
Division of Air Pollution
Robt. A. Taft Sanitary Engineering Center
4676 Columbia Parkway, Cincinnati, Ohio 45226

1. If you have no active air pollution research projects during 1966 please check box below, complete Items 2-4, and return report in attached envelope.

No active projects in 1966 ☒

2. Reported by: _____ Date: _____
Name and Title
3. Organization: _____
4. Address: _____
5. Investigator or Director: _____
6. Title and brief description of project (continue on back of report if necessary):
7. Original starting date of project: _____
8. Project Support: Grant: (PHS) _____ (AEC) _____ (NSF) _____ Other _____
Contract: (Govt) _____ Private _____
Internal Funds _____
Other (Specify) _____
9. Amount of support (if reportable on yearly basis for 1966 (report to nearest thousand dollars): _____
10. Research is reported in: Progress Reports _____
Publications _____

Please indicate, on back of one of the report forms submitted, names of additional individuals in your organization who should be contacted.

Additional report forms are available from The American Society of Mechanical Engineers, Committee on Air Pollution Controls, United Engineering Center, 345 East 47th Street, New York, N. Y. 10017.

**prepared for
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**U.S. DEPARTMENT
OF HEALTH,
EDUCATION,
AND
WELFARE**

PUBLIC HEALTH SERVICE

**DIVISION OF
AIR POLLUTION**

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